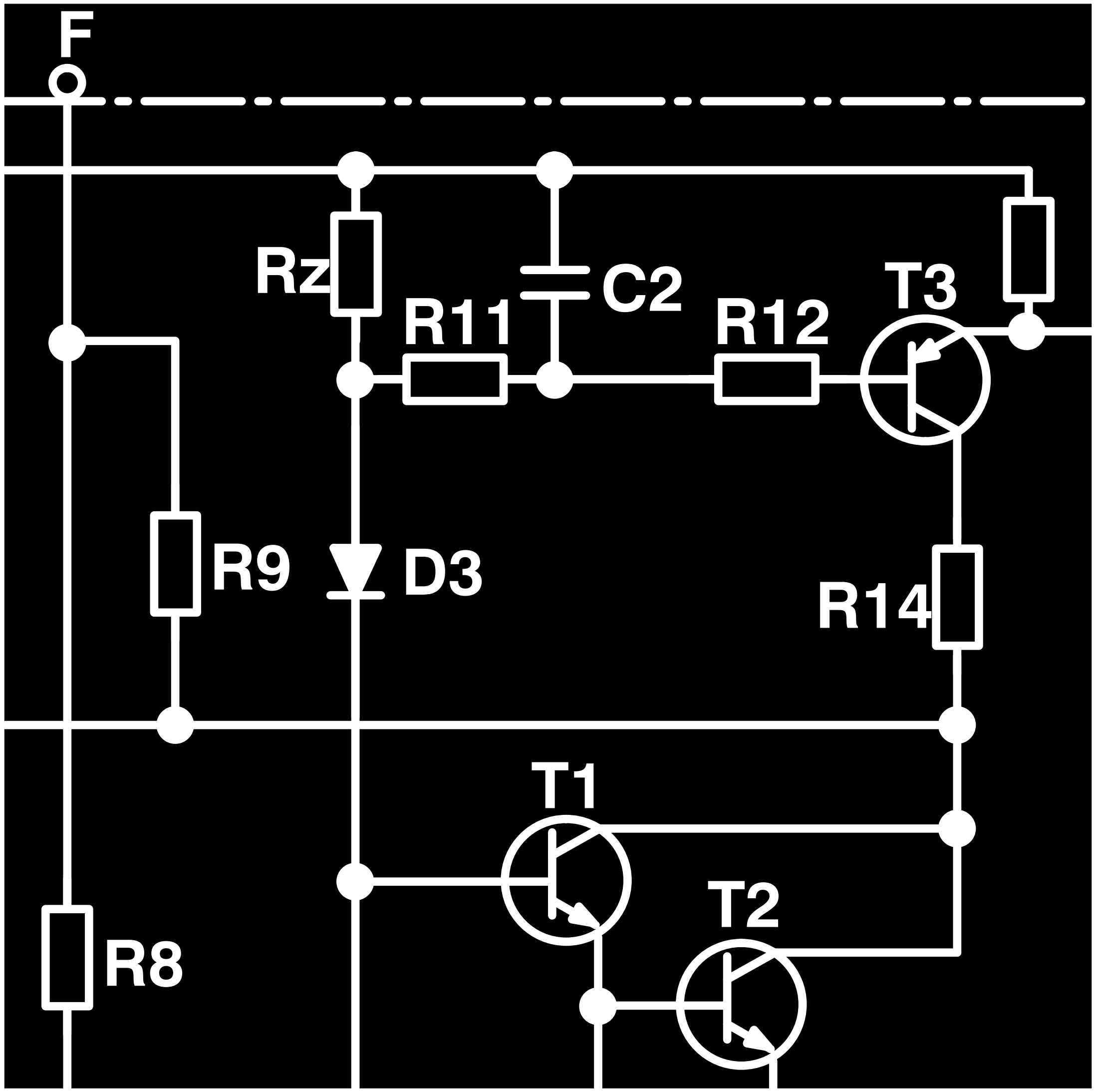


1999 BMW 318ti (E36/5) Electrical Troubleshooting Manual

Vehicles produced 9/98 thru 08/99

PN 01 00 0 024 249

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36/5 (318ti)

SCHEMATICS MODEL YEAR 1999

PART NUMBER 01 00 0 024 249

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self–explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit sysmbols used are listed and explained in cell **0140.0 Symbols**.

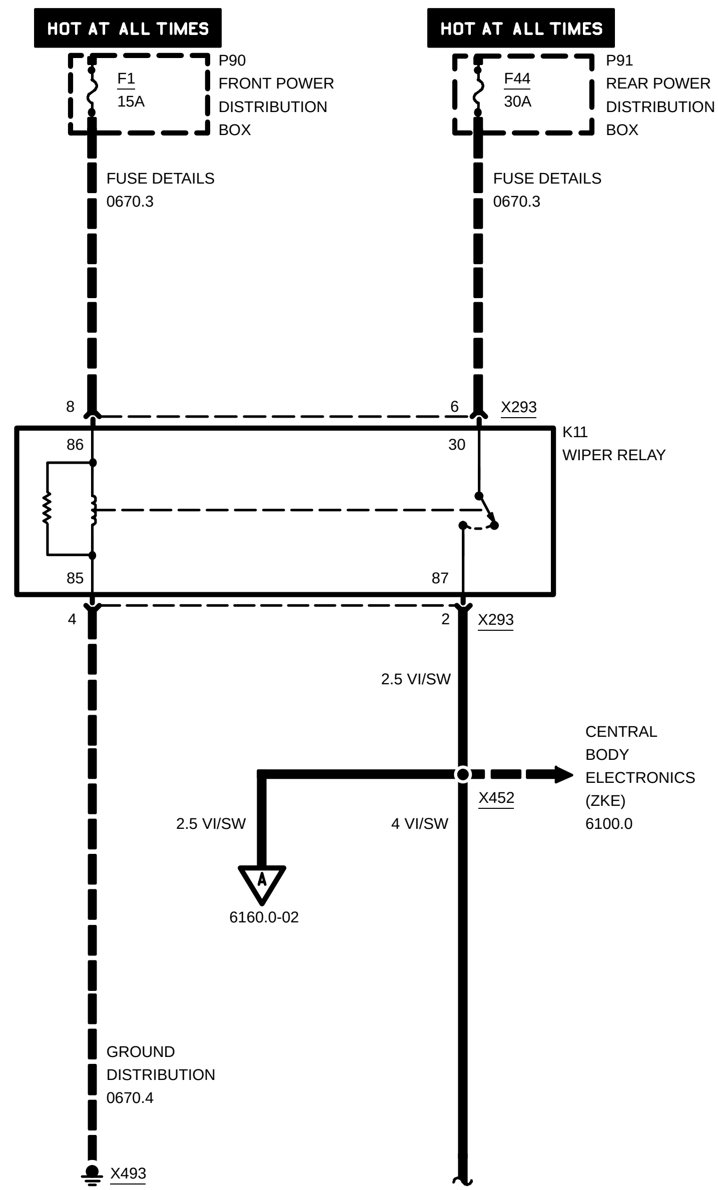
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



BMW 3 compact

General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

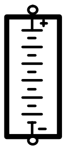
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

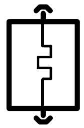
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

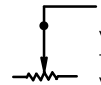
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0–02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

0140.0 SYMBOLS


BATTERY

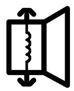

HEATING ELEMENT


VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE

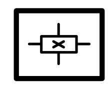

ANTENNA


CONTROL/POWER ELECTRONICS

FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK

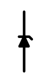

LIGHT

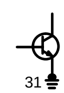
DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


CIRCUIT BREAKER


PERMANENT MAGNET MOTOR ONE SPEED


ZENER DIODE TO REGULATE VOLTAGE



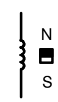
TRANSISTORIZED SWITCH


THERMO SWITCH

SOLENOID

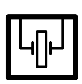

PERMANENT MAGNET MOTOR TWO SPEEDS


LIGHT EMITTING DIODE

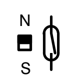


INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID

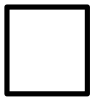

KNOCK SENSOR


OXYGEN SENSOR

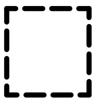


VEHICLE SPEED SENSOR

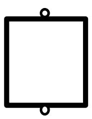
SYMBOLS



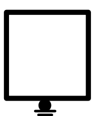
ENTIRE COM-
PONENT SHOWN



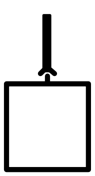
PART OF COM-
PONENT SHOWN



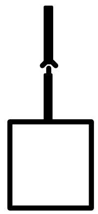
COMPONENT WITH
SCREW TERMI-
NALS



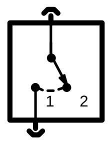
COMPONENT CASE
ATTACHED DI-
RECTLY TO METAL
PART OF CAR
(GROUNDED)



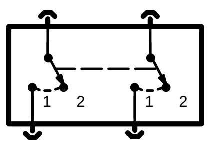
CONNECTOR AT-
TACHED TO COM-
PONENT



CONNECTOR AT-
TACHED TO COM-
PONENT LEAD
(PIGTAIL)



ONE POLE, TWO
POSITION SWITCH

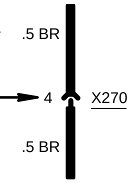


SWITCHES THAT
MOVE TOGETHER
DASHED LINE
SHOWS A ME-
CHANICAL CON-
NECTION
BETWEEN
SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

WIRE INSULATION
IS ONE COLOR

PIN NUMBER

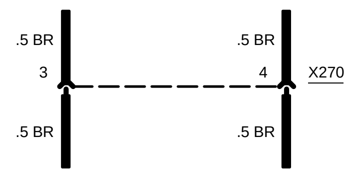


CONNECTOR REF-
ERENCE NUMBER
FOR COMPONENT
LOCATION CHART

WIRE INSULATION
IS ONE COLOR
WITH ANOTHER
COLOR STRIPE
(GREEN WITH
WHITE)



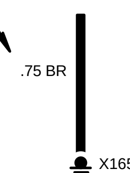
A WAVY LINE
MEANS WIRE IS
CONTINUED



TWO CONNEC-
TIONS (PINS) IN
THE SAME
CONNECTOR

DASHED LINE INDI-
CATES TERMINALS
OF THE SAME
CONNECTOR

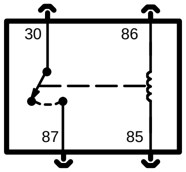
WIRE SIZE IN MM
SQUARED



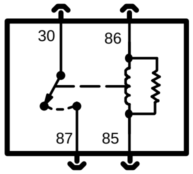
WIRE ATTACHED
TO METAL PART
OF CAR
(GROUNDED)

GROUND NUM-
BERED FOR REF-
ERENCE ON COM-
PONENT LOCATION
CHART

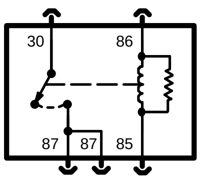
SYMBOLS



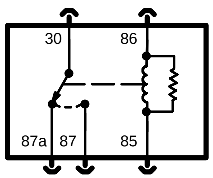
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

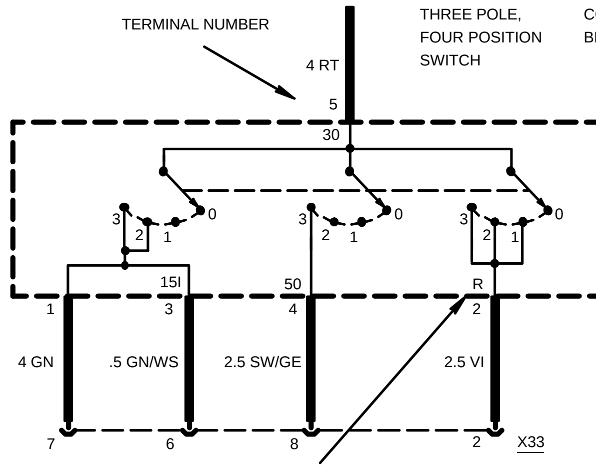


CONTACT RELAY WITH TWO OUTPUTS



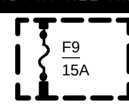
CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

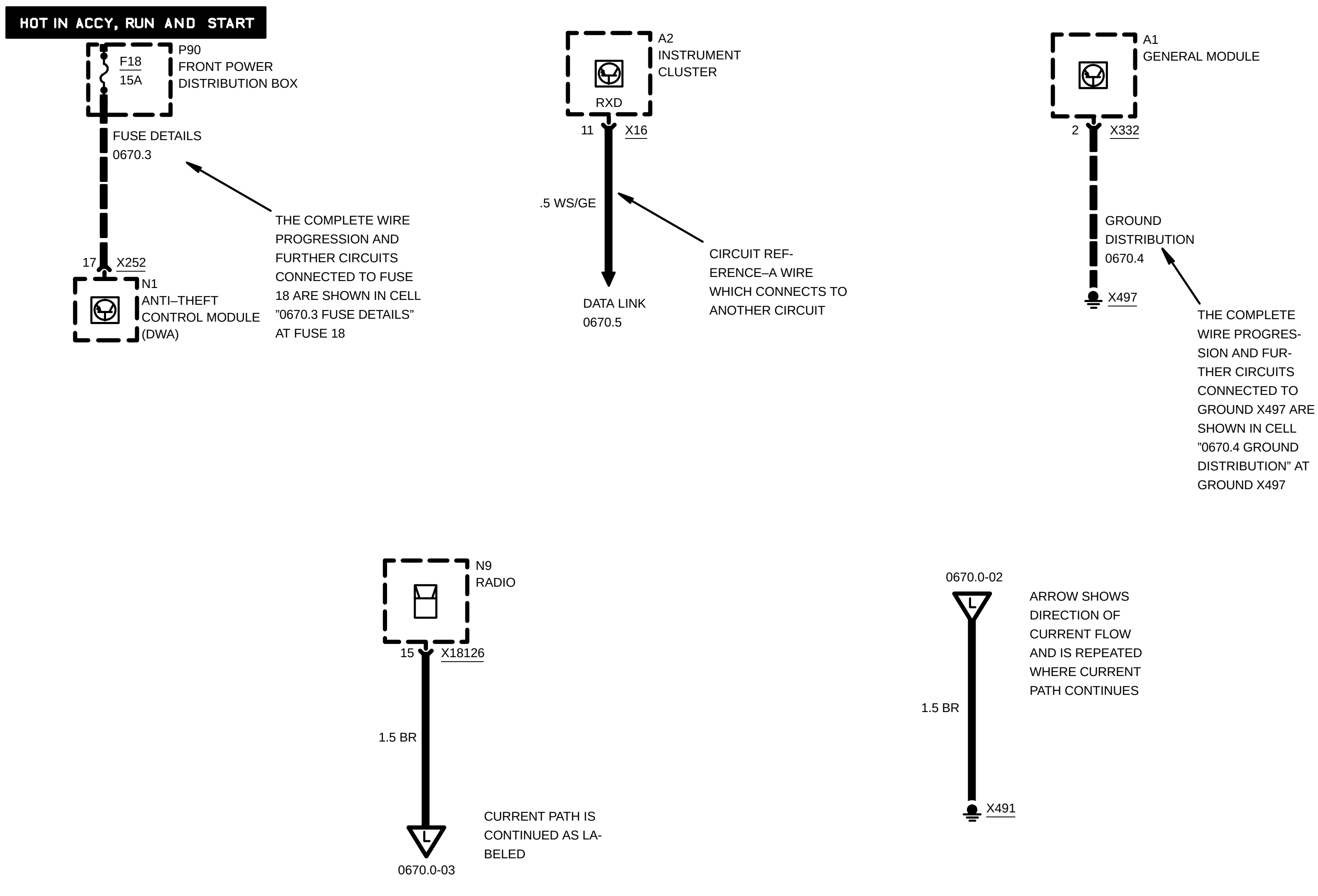
HOT AT ALL TIMES



INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

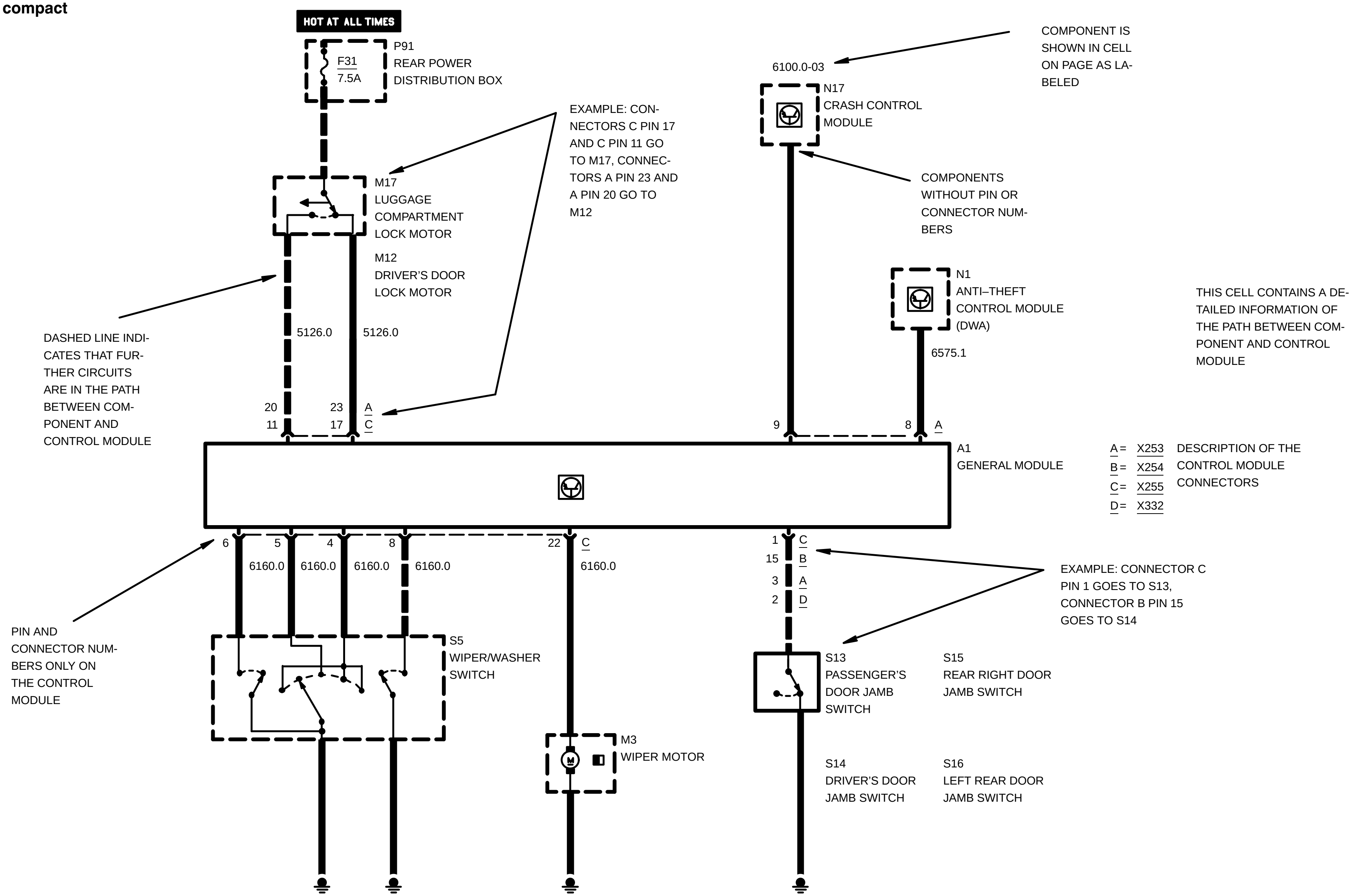
SYMBOLS



HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI–THEFT
CONTROL MODULE
(DWA)
A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE–A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT
DATA LINK
0670.5
A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497
N9
RADIO
15
X18126
1.5 BR
CURRENT PATH IS CONTINUED AS LABELED
L
0670.0-03
0670.0-02
L
ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES
1.5 BR
X491

SYMBOLS

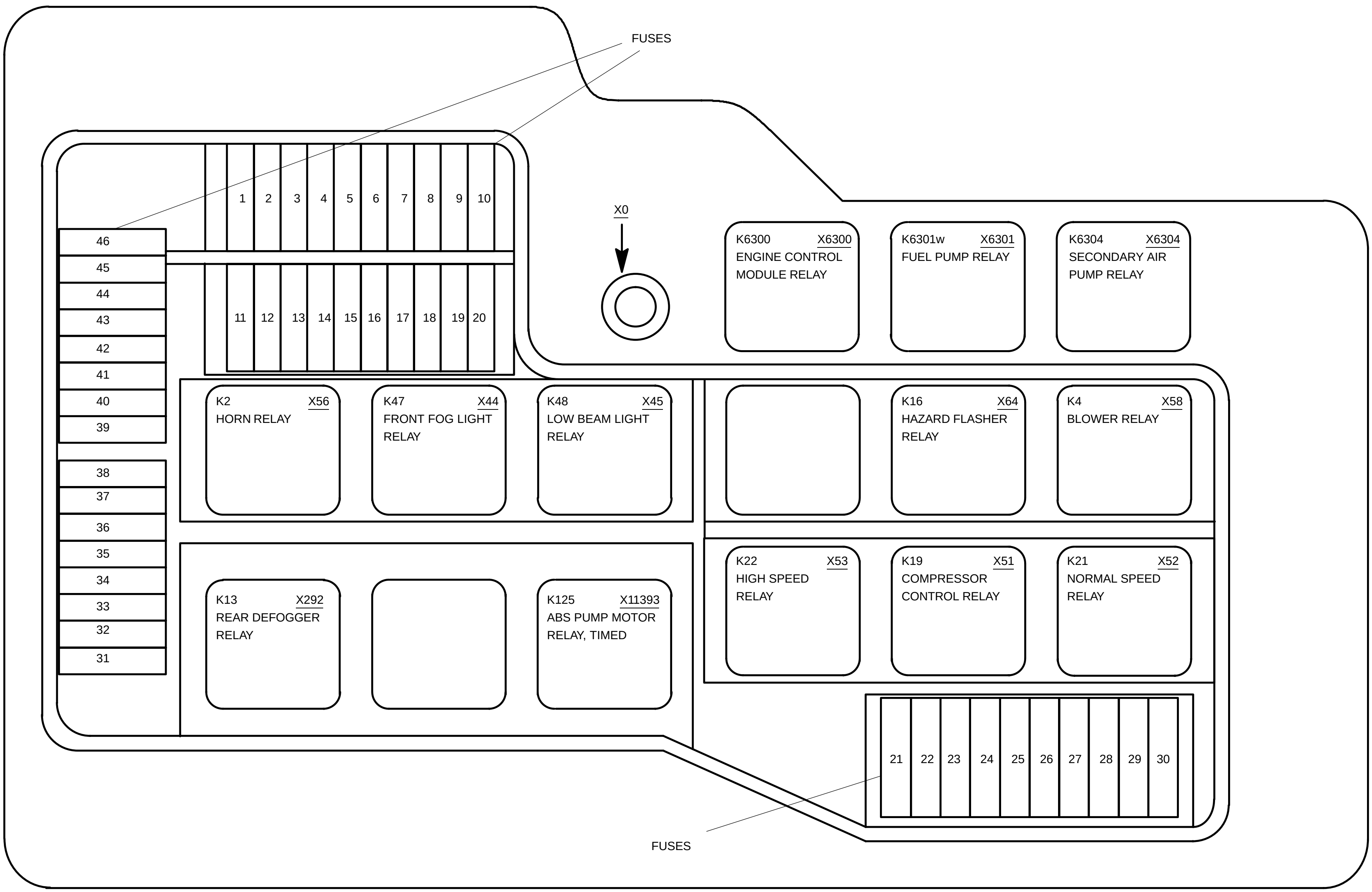
BLOCK DIAGRAM



BMW 3 compact

0670.0 POWER DISTRIBUTION CHART

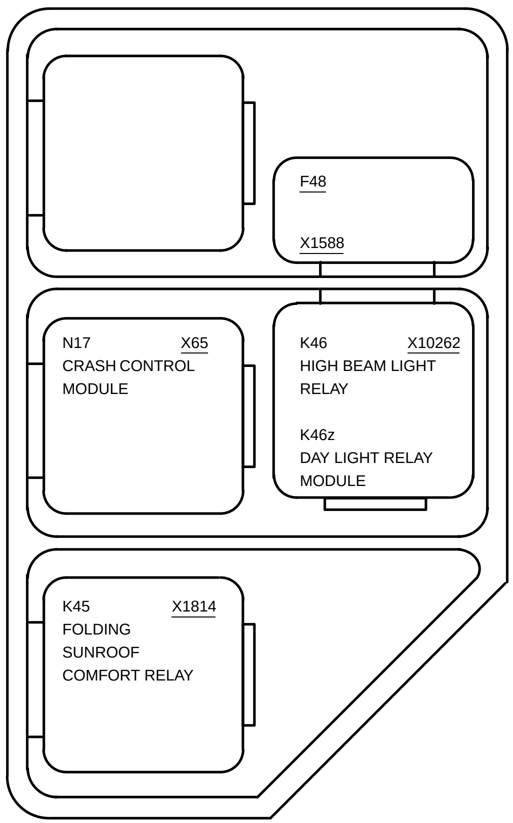
FRONT POWER DISTRIBUTION BOX



BMW 3 compact

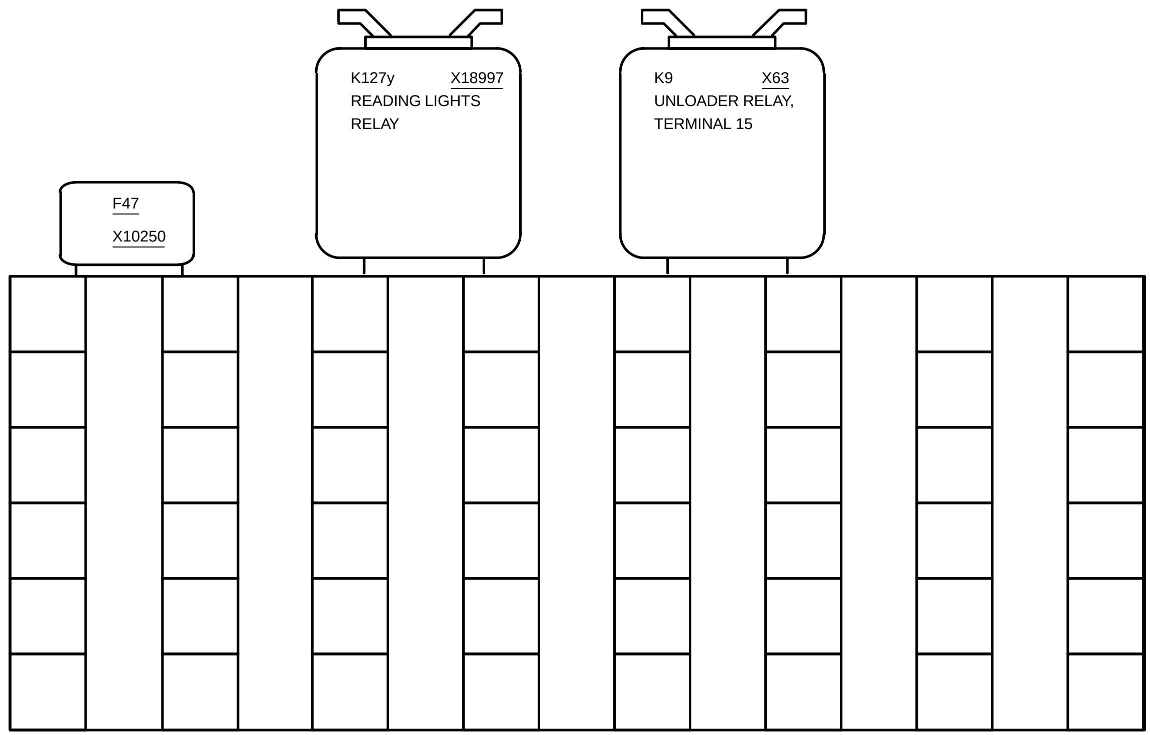
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



0670.1 FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**
		30A	5A	30A	15A	30A	30A	5A	15A	20A	30A	7.5A	7.5A		30A	15A	5A		15A		30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)		●														●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																										●	●	●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																											●		
3450.1	SLIP CONTROL (ABS/ASC)										●											●						●		
5116.0	POWER MIRRORS																								●					
5126.0	ZKE CENTRAL LOCKING (ZV)							●																					●	
5133.0	ZKE POWER WINDOWS (FH)														●															
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER TILT/SLIDE SUNROOF (SHD)	●																												
5410.4	ELECTRIC FOLDING SUNROOF	●																												
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)							●							●															
6133.0	HORN								●																					
6135.1	DRIVE–AWAY PROTECTION (EWS III)																												●	
6160.1	WIPER/WASHER MODULE (WWM)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.0	CLOCK																													

BMW 3 compact

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	5A	30A	15A	30A	30A	5A	15A	20A	30A	7.5A	7.5A		30A	15A	5A		15A		30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6300.0	LIGHT SWITCH DETAILS																						●	●		●				
6312.0	HEADLIGHTS/FOG LIGHTS											●	●			●							●	●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.0	INTERIOR ACCESSORIES																													
6350.0	CRASH CONTROL MODULE																													
6410.7	HEATING CONTROL (HS)																				●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.6	INTEGRATED HEATING– AND CLIMATE CONTROL																●				●			●						
6510.0	RADIO/CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI–THEFT SYSTEM (ALPINE)																													
6581.3	BOARD COMPUTER (BC – LOW)																													

FUSE CHART

FUSES 30 TO 48

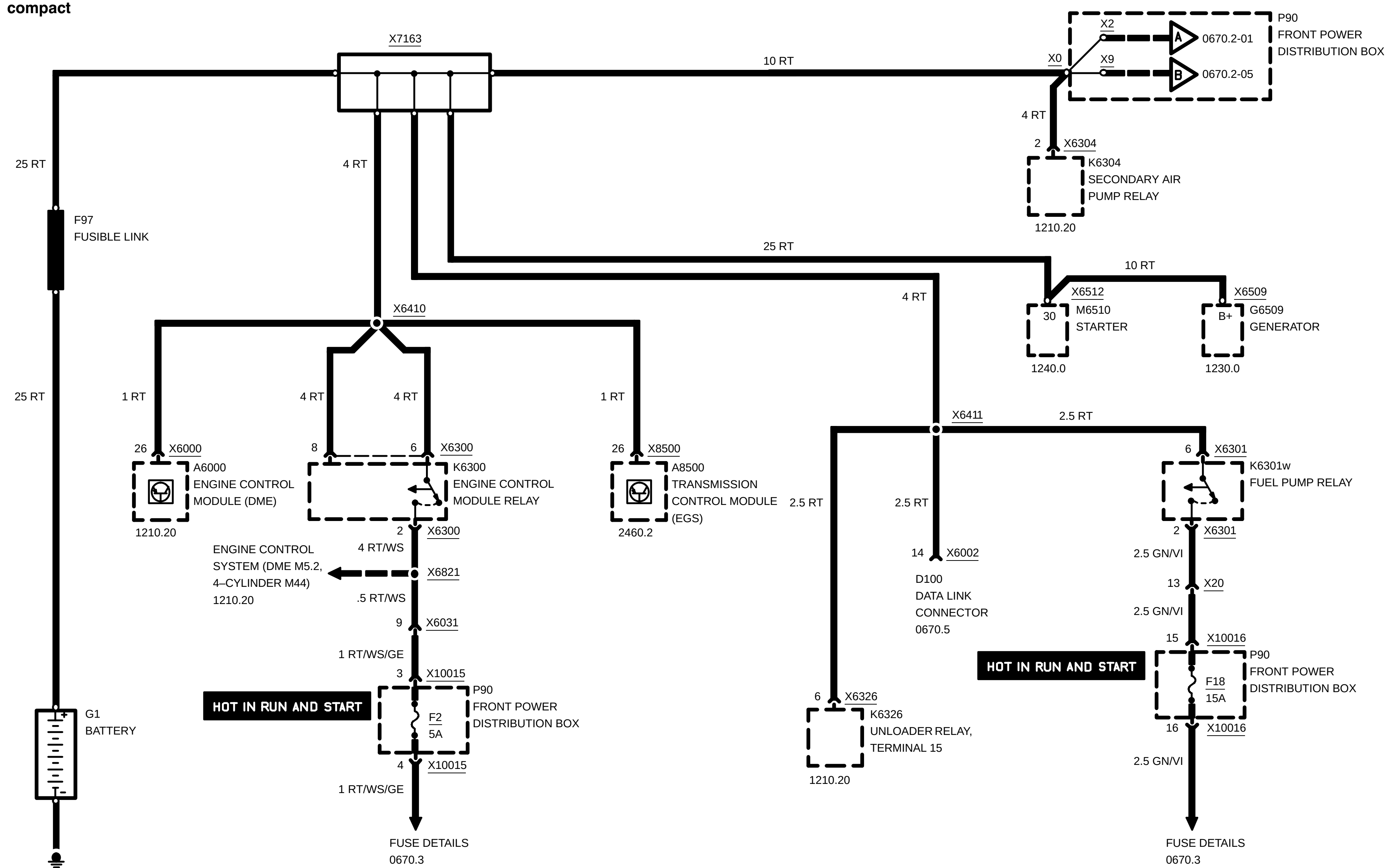
		FUSE NUMBER																		
		30	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A		7.5A	5A	15A	7.5A	15A	15A	40A
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)																			
1230.0	CHARGING SYSTEM																			
1240.0	START		●														●			
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																	●		
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●						
3450.1	SLIP CONTROL (ABS/ASC)									●								●		
5116.0	POWER MIRRORS																			
5126.0	ZKE CENTRAL LOCKING (ZV)		●				●										●			
5133.0	ZKE POWER WINDOWS (FH)																			
5200.0	POWER SEATS											●								
5203.0	HEATED SEATS																			
5410.1	POWER TILT/SLIDE SUNROOF (SHD)																			
5410.4	ELECTRIC FOLDING SUNROOF																			
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●					
6133.0	HORN																			
6135.1	DRIVE–AWAY PROTECTION (EWS III)		●														●			
6160.1	WIPER/WASHER MODULE (WWM)							●								●				
6169.0	WINDSHIELD WASHER JET HEATERS																			
6211.0	INSTRUMENT CLUSTER		●															●		
6213.0	CLOCK		●															●		

FUSE CHART

FUSES 30 TO 48

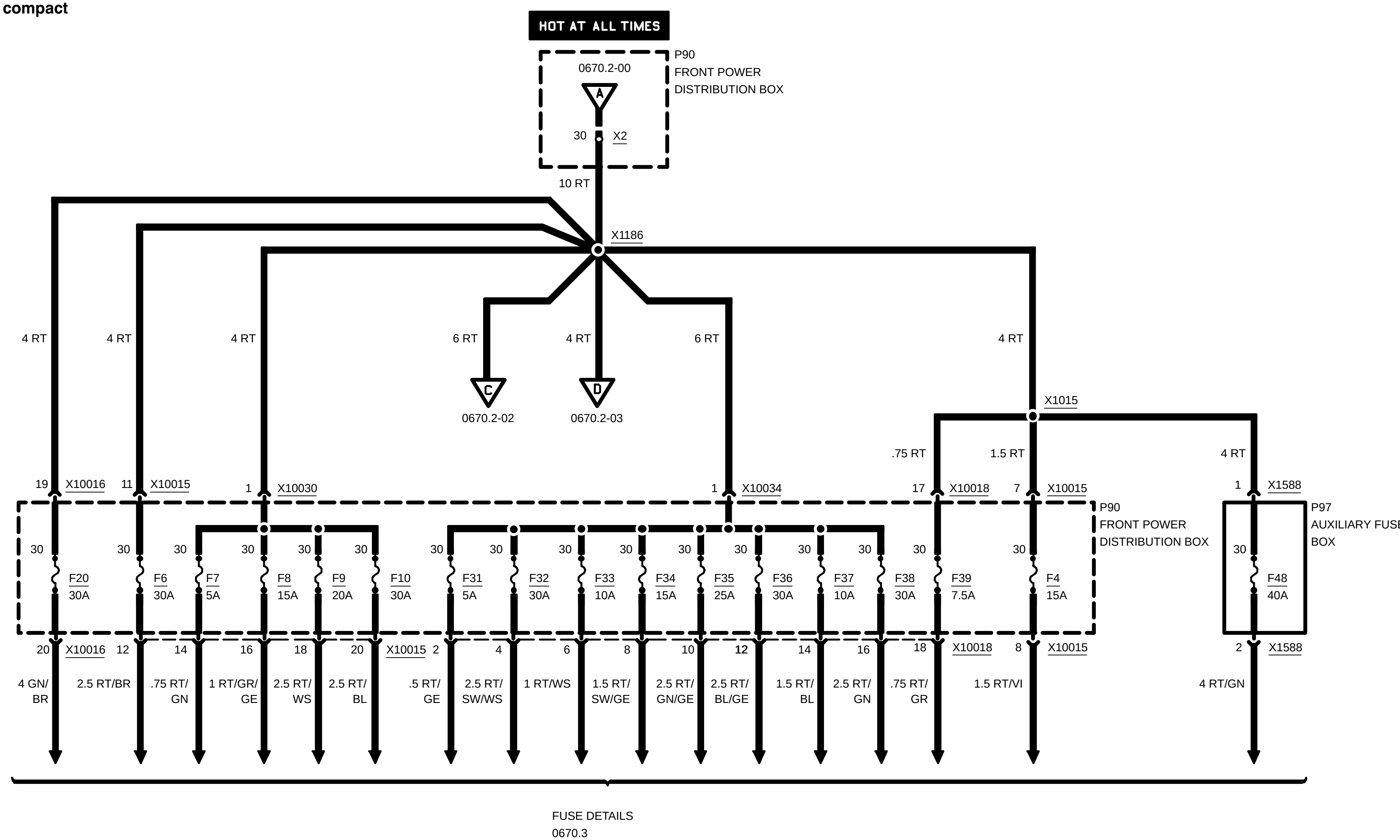
		FUSE NUMBER																		
		30	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A		7.5A	5A	15A	7.5A	15A	15A	40A
6300.0	LIGHT SWITCH DETAILS				●				●											
6312.0	HEADLIGHTS/FOG LIGHTS	●																		
6313.0	TURN/HAZARD LIGHTS					●														
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●											
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●										●	
6322.0	BACK UP LIGHTS																			
6325.0	BRAKE LIGHTS																	●		
6330.3	INTERIOR LIGHTS				●										●					
6332.0	INTERIOR ACCESSORIES			●					●							●				
6350.0	CRASH CONTROL MODULE					●														
6410.7	HEATING CONTROL (HS)																			
6424.0	REAR WINDOW DEFOGGER																			
6450.6	INTEGRATED HEATING– AND CLIMATE CONTROL										●									●
6510.0	RADIO/CD PLAYER (PROVISIONS)				●											●				
6510.1	RADIO/HIFI				●											●				
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●					
6571.0	CRUISE CONTROL (TEMPOMAT)																	●		
6575.2	ANTI–THEFT SYSTEM (ALPINE)														●				●	
6581.3	BOARD COMPUTER (BC – LOW)		●															●		

0670.2 POWER DISTRIBUTION



BMW 3 compact

POWER DISTRIBUTION



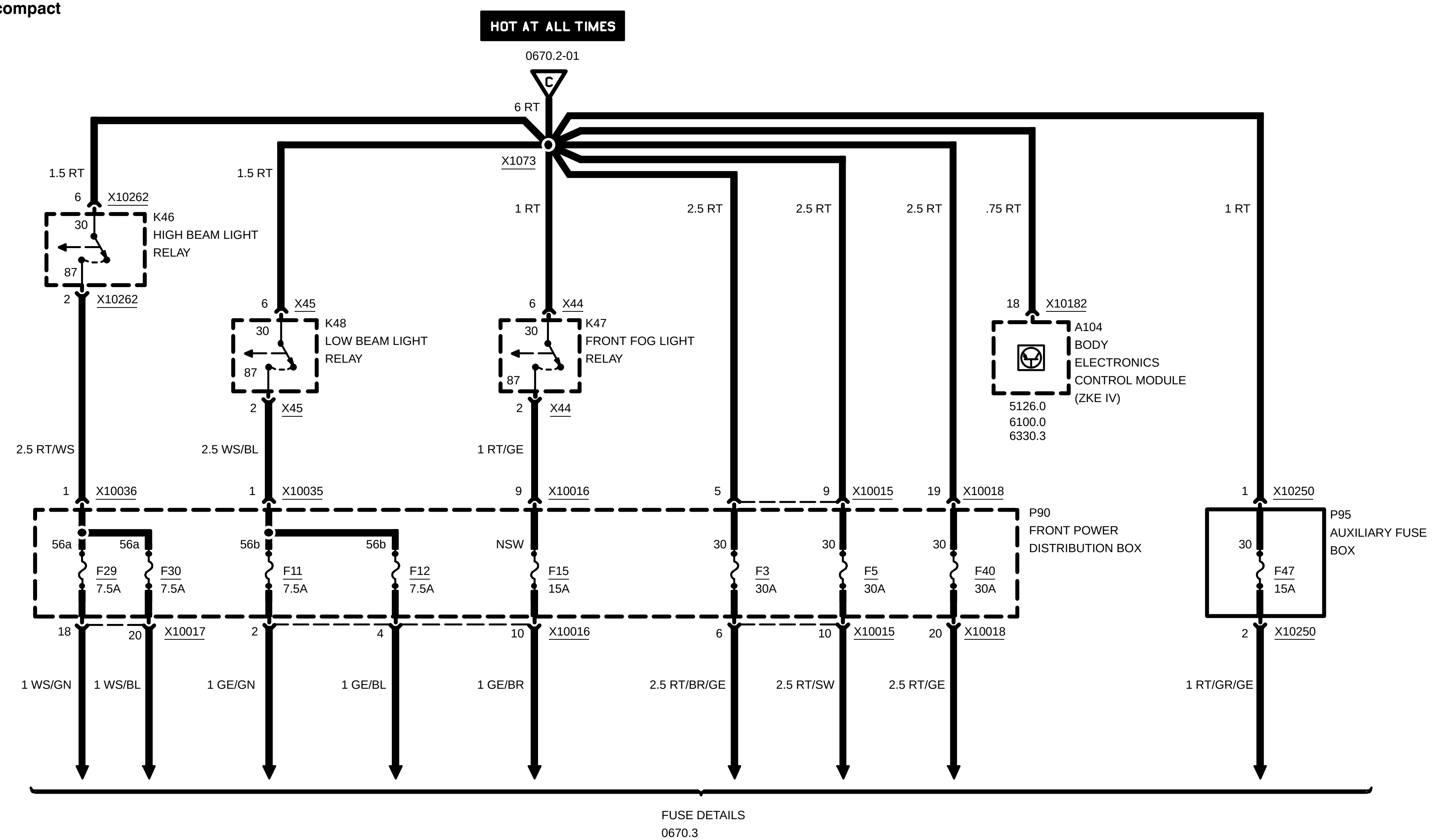
03/00

0670.2-01

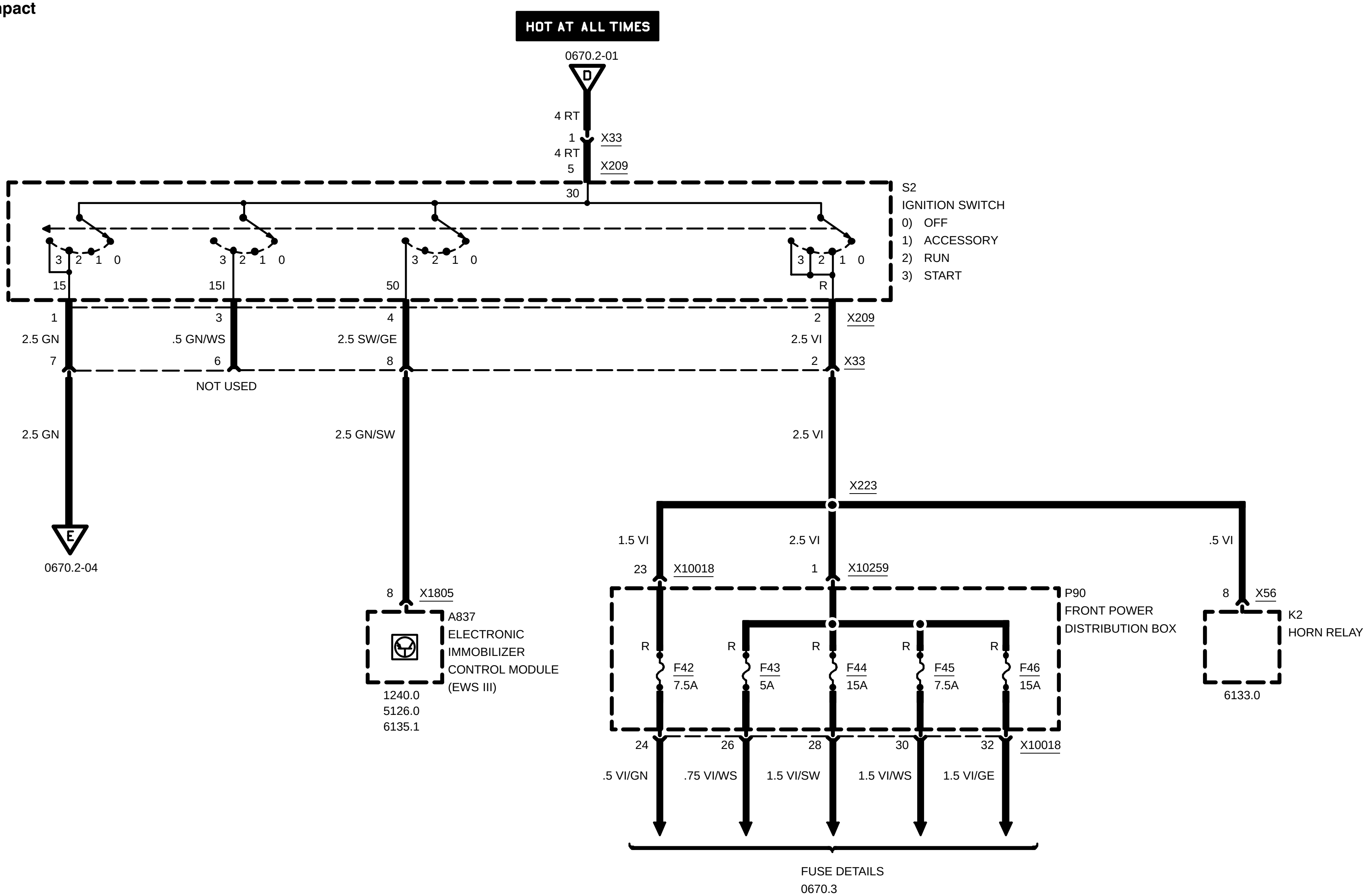
1999

BMW 3 compact

POWER DISTRIBUTION

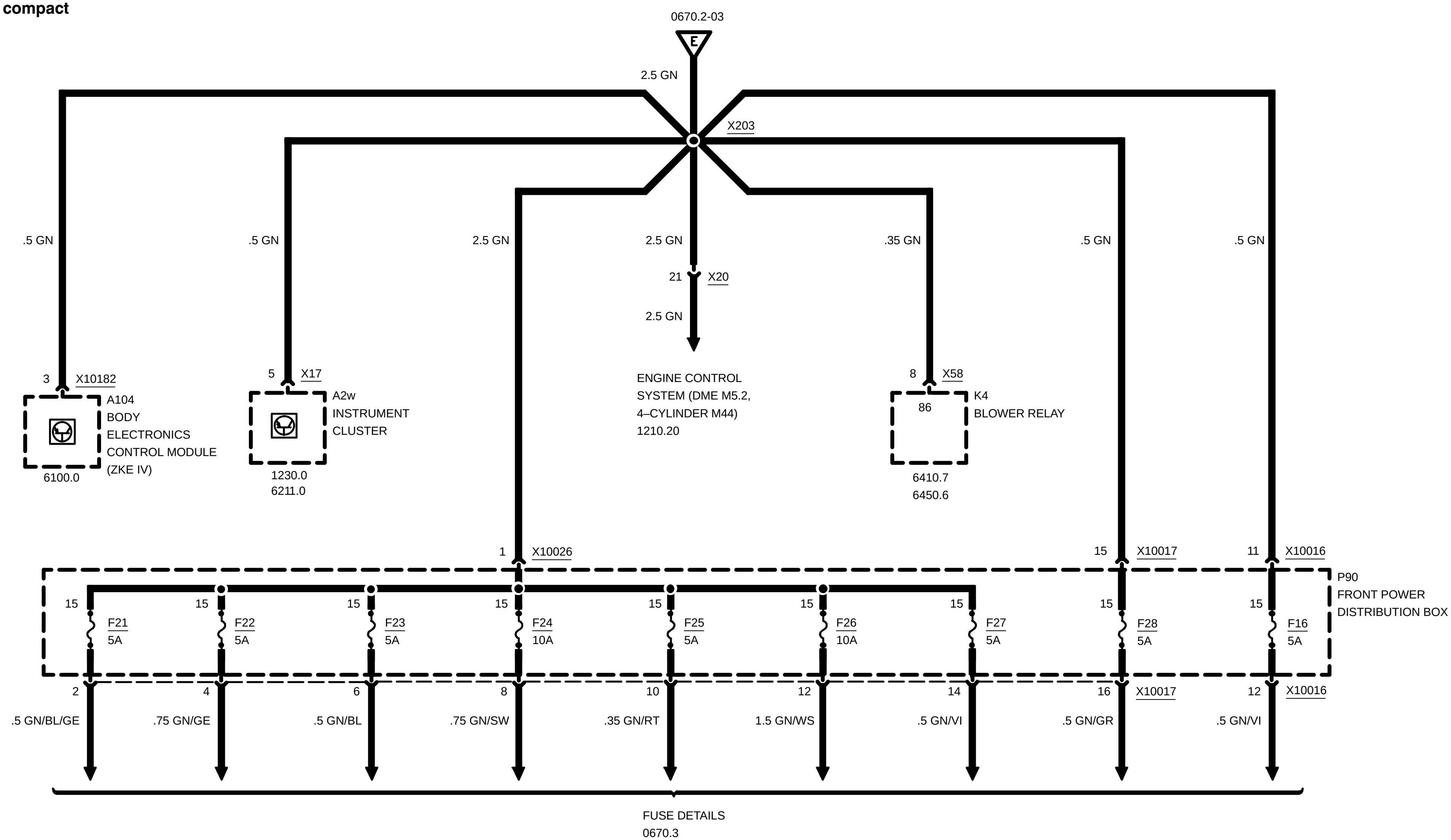


POWER DISTRIBUTION

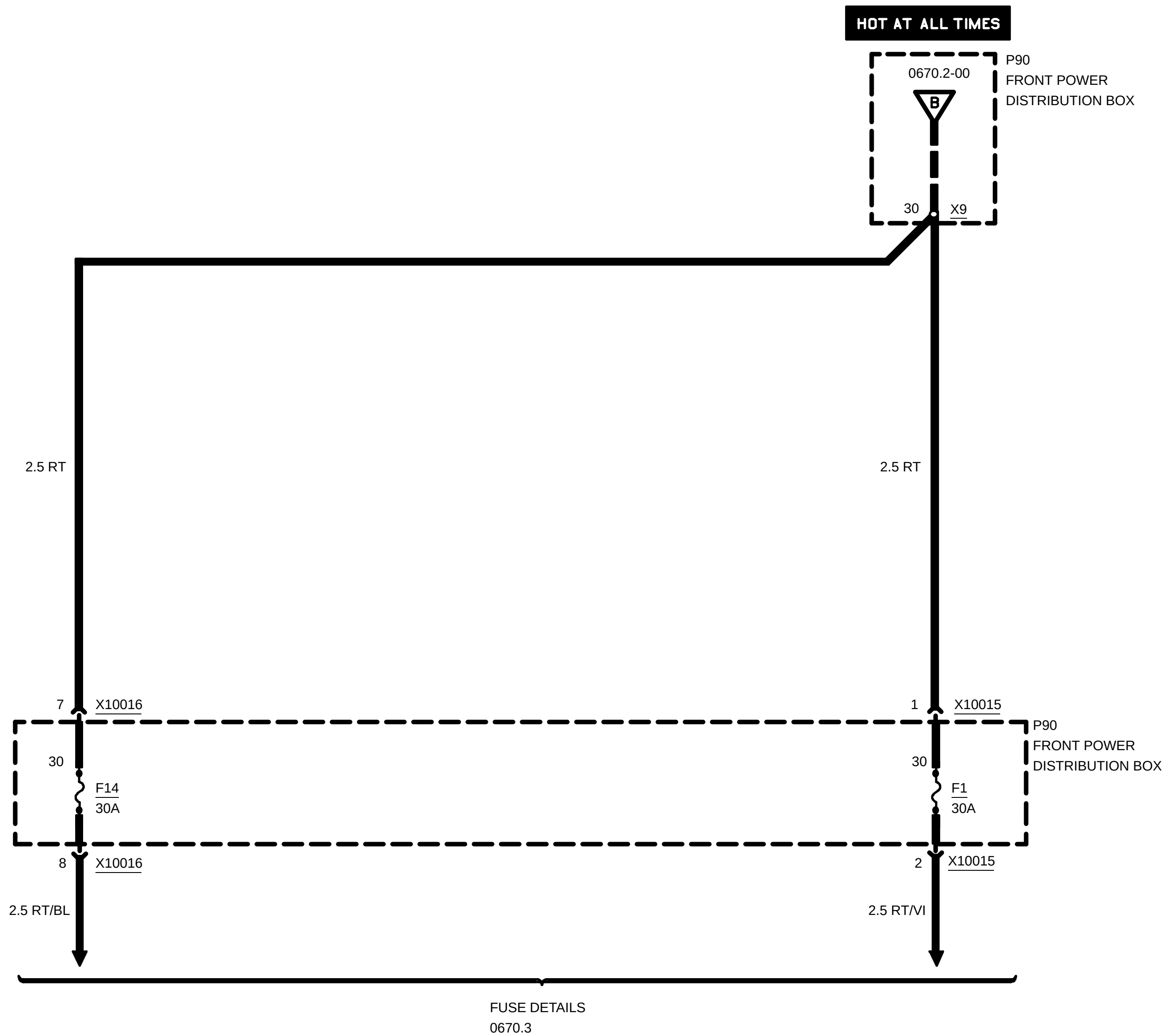


BMW 3 compact

POWER DISTRIBUTION



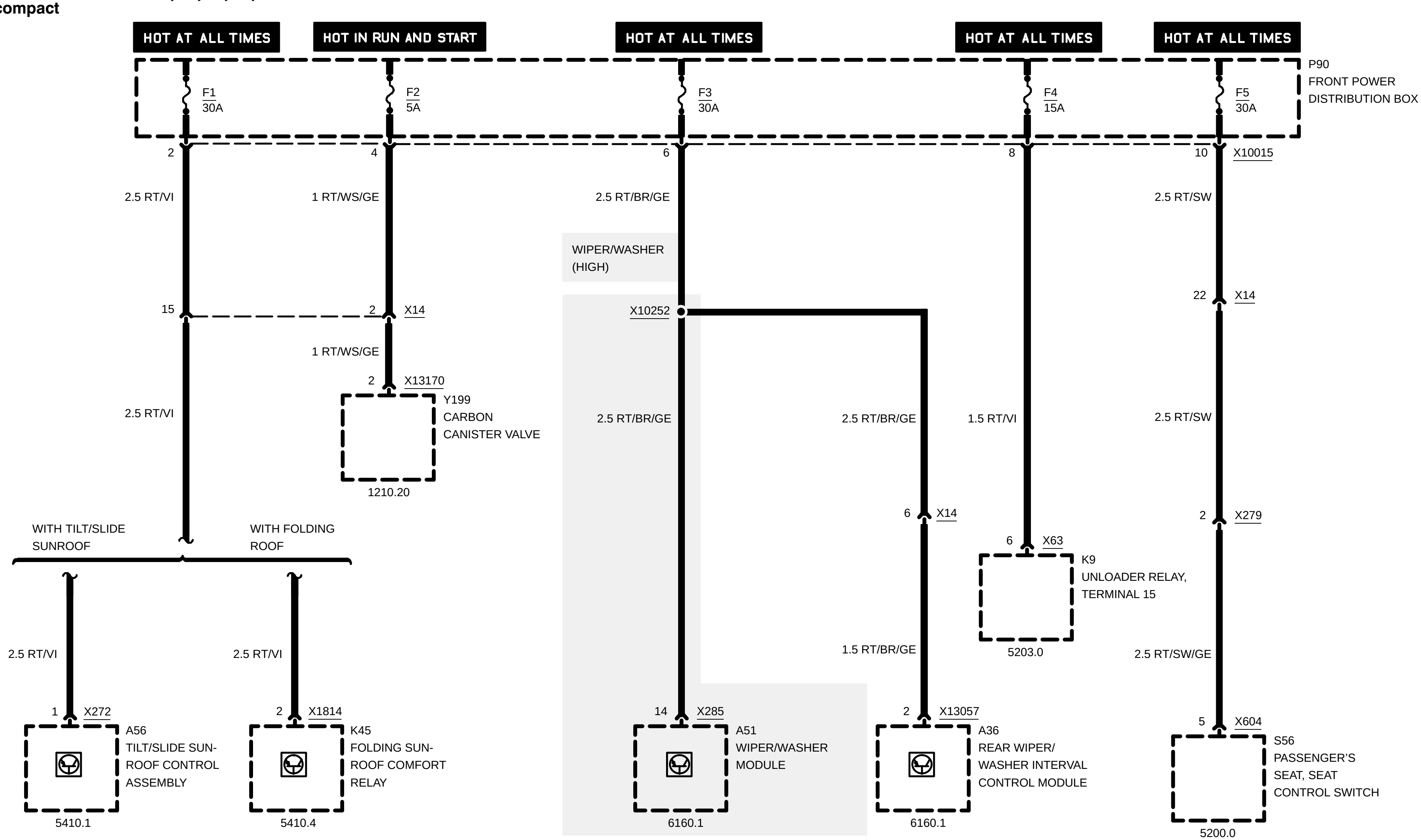
POWER DISTRIBUTION



BMW 3 compact

0670.3 FUSE DETAILS

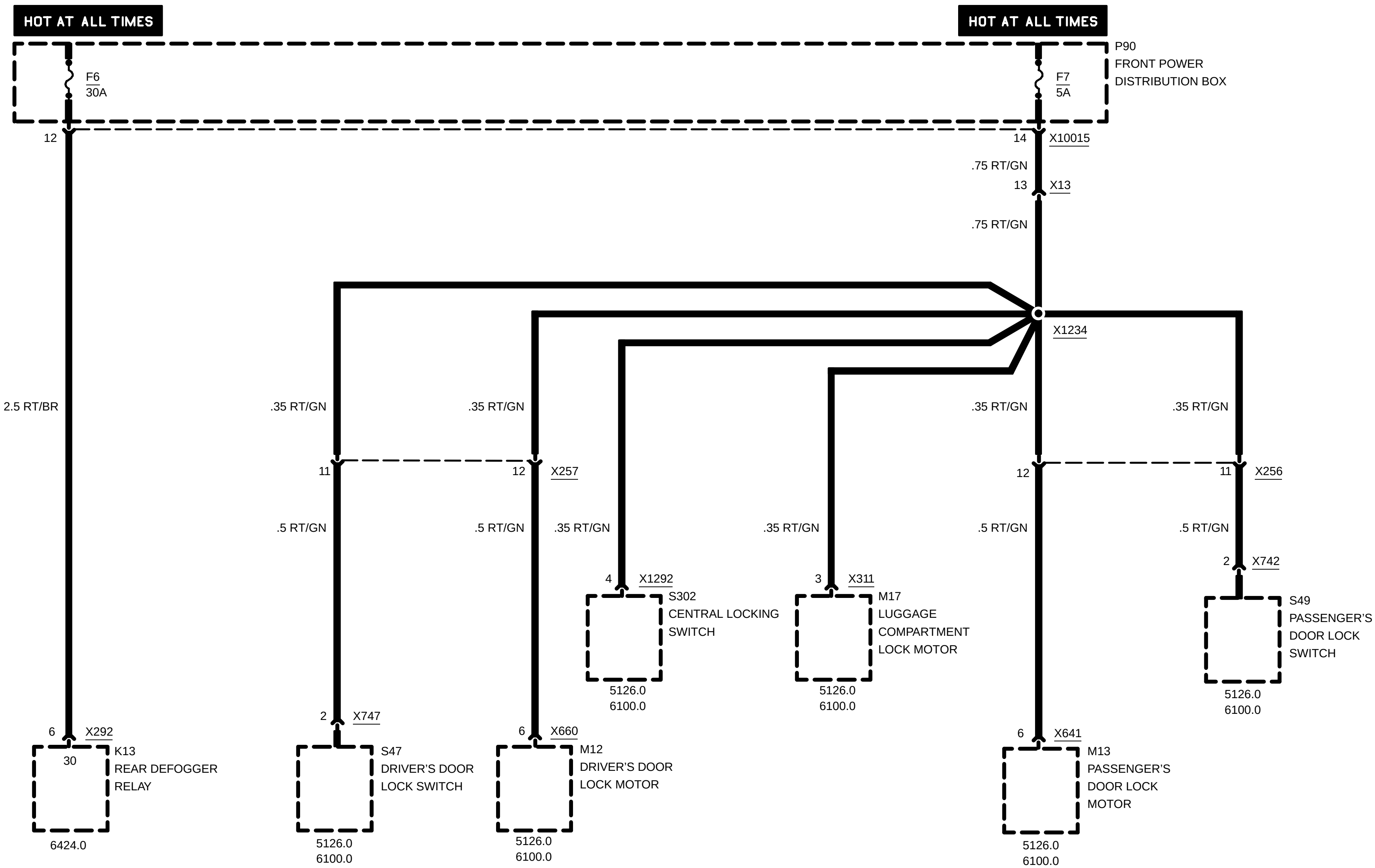
FUSES 1, 2, 3, 4, AND 5



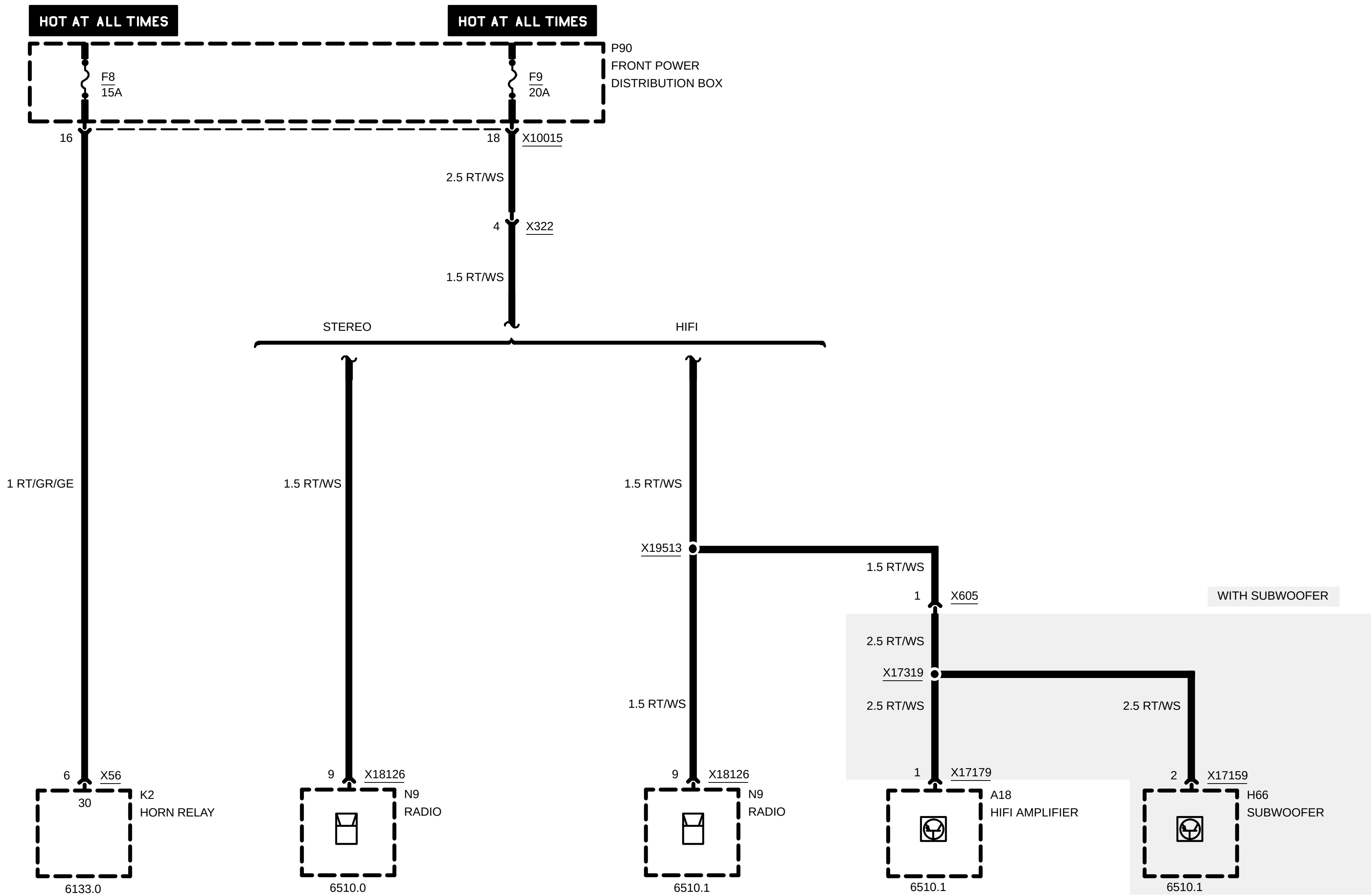
BMW 3 compact

FUSE DETAILS

FUSES 6 AND 7

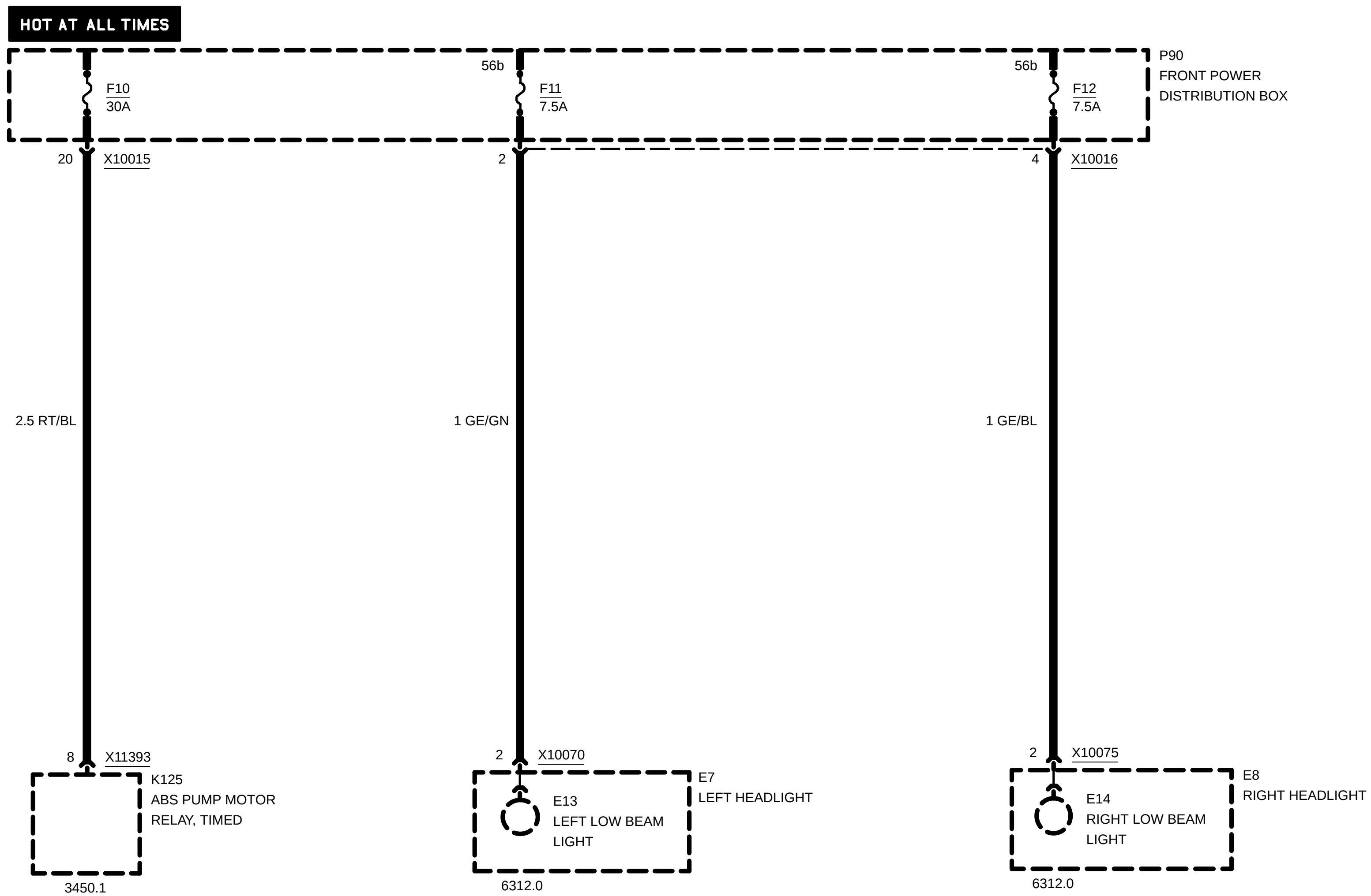


FUSE DETAILS
FUSES 8 AND 9



FUSE DETAILS

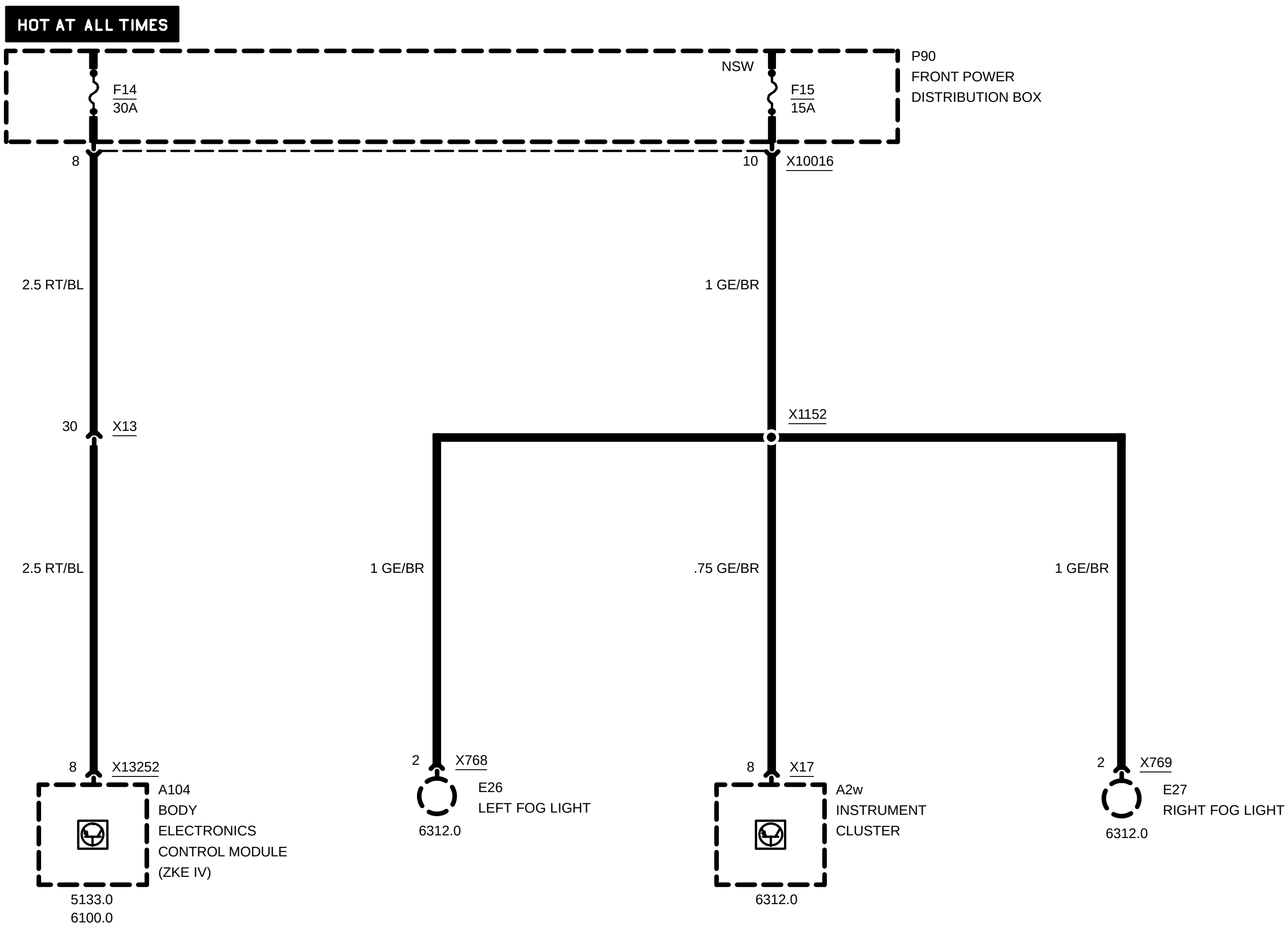
FUSES 10, 11, AND 12



BMW 3 compact

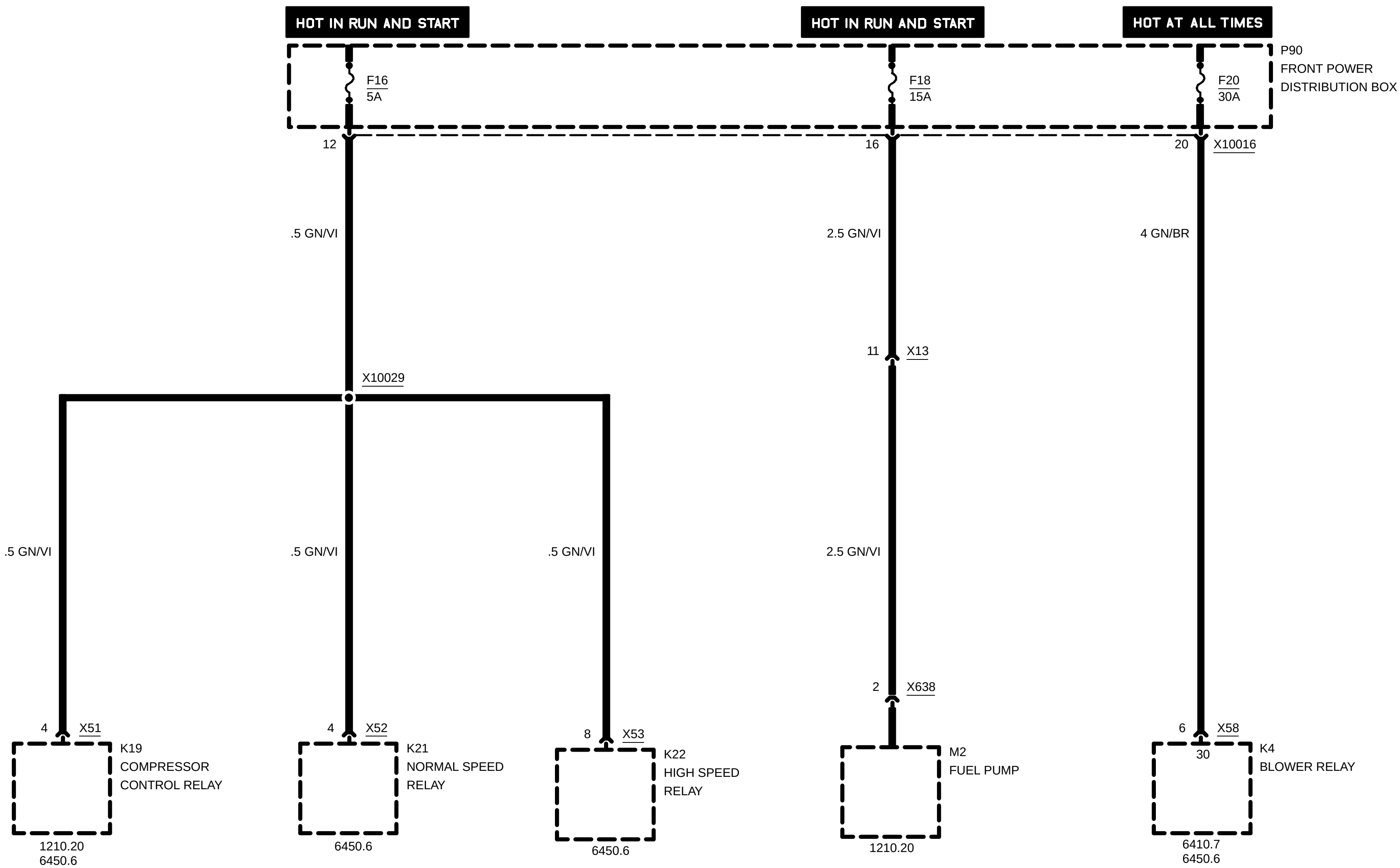
FUSE DETAILS

FUSES 14 AND 15



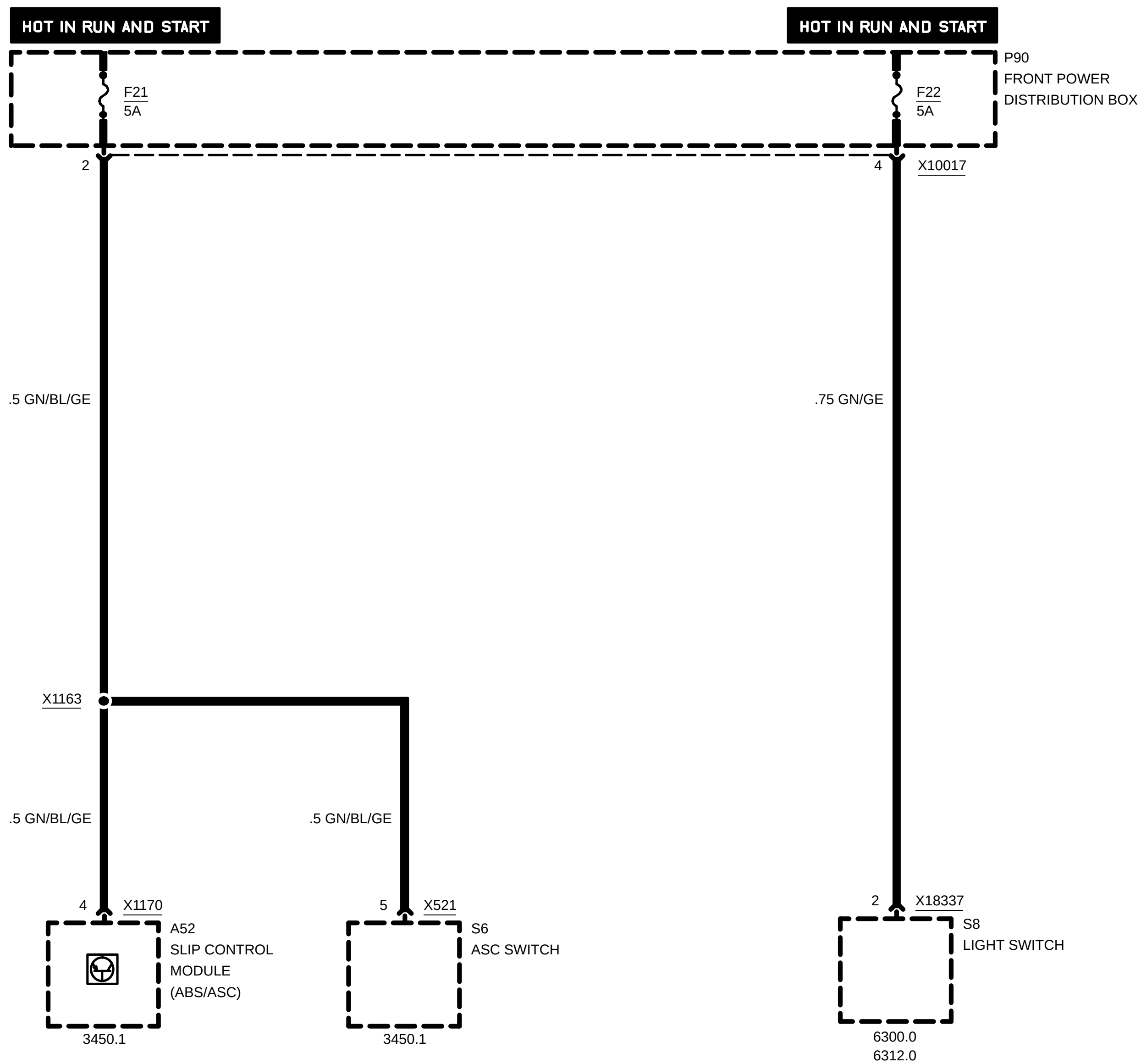
FUSE DETAILS

FUSES 16, 18, AND 20

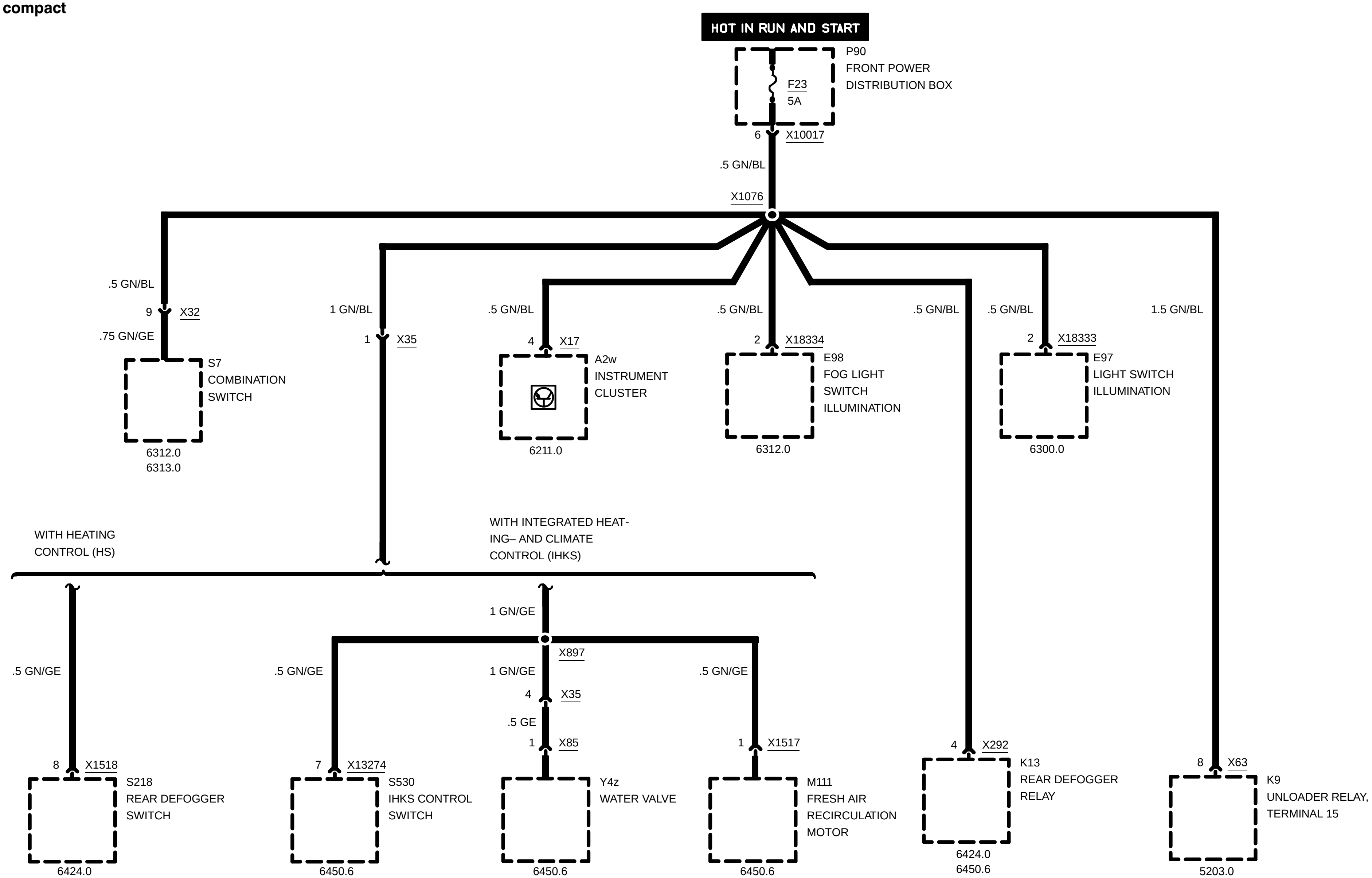


FUSE DETAILS

FUSES 21 AND 22

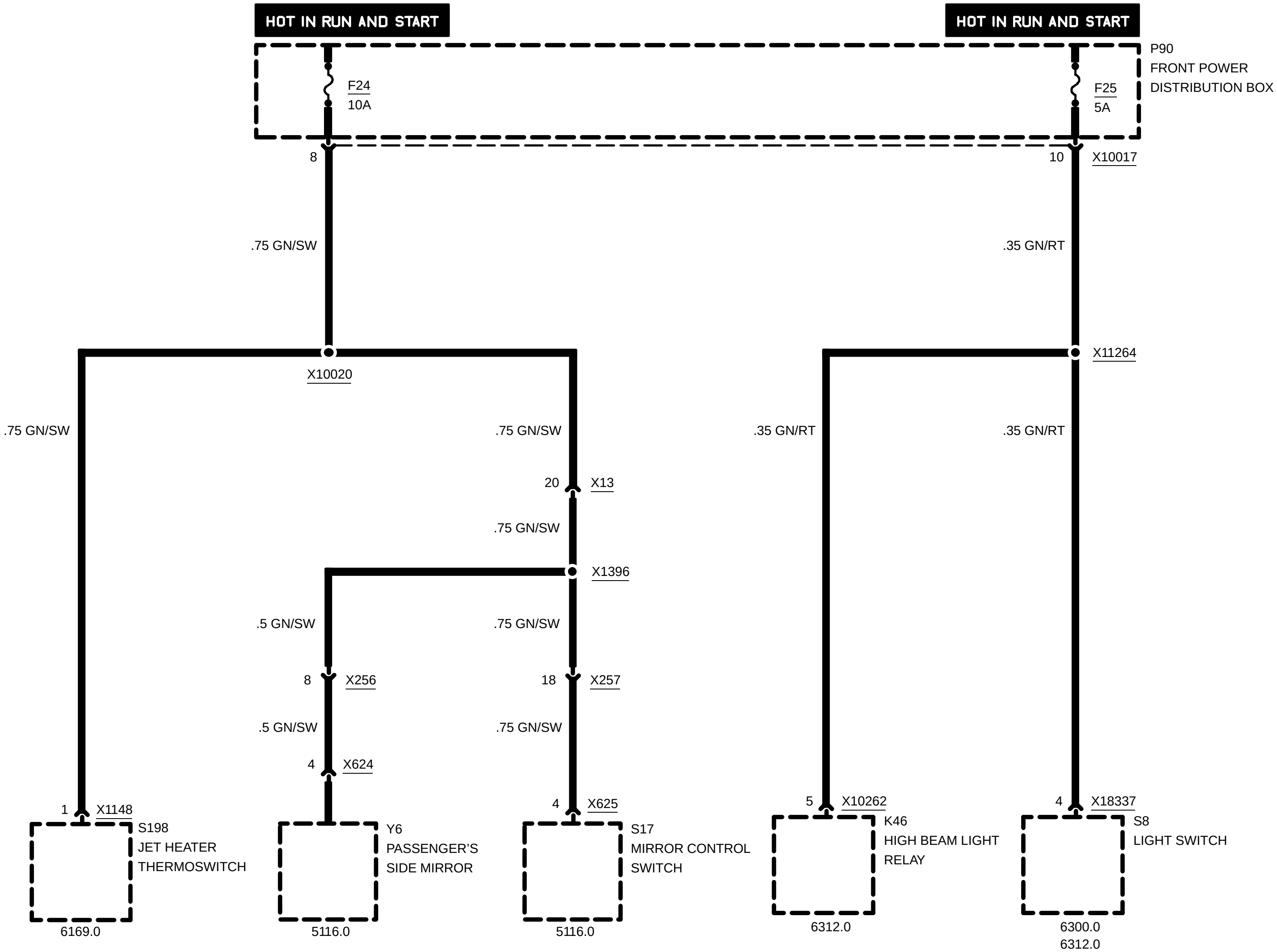


FUSE DETAILS
FUSE 23



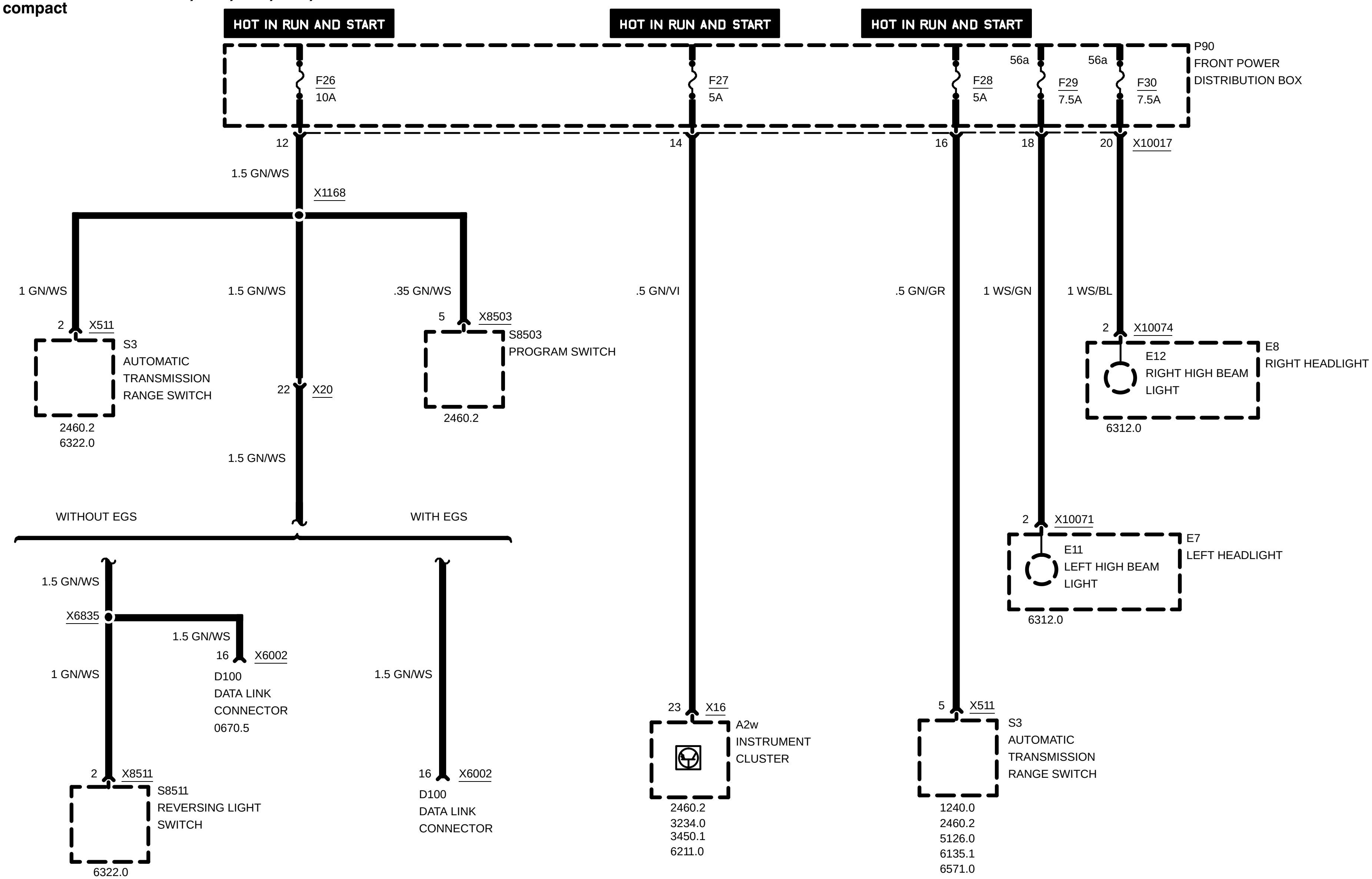
FUSE DETAILS

FUSES 24 AND 25



FUSE DETAILS

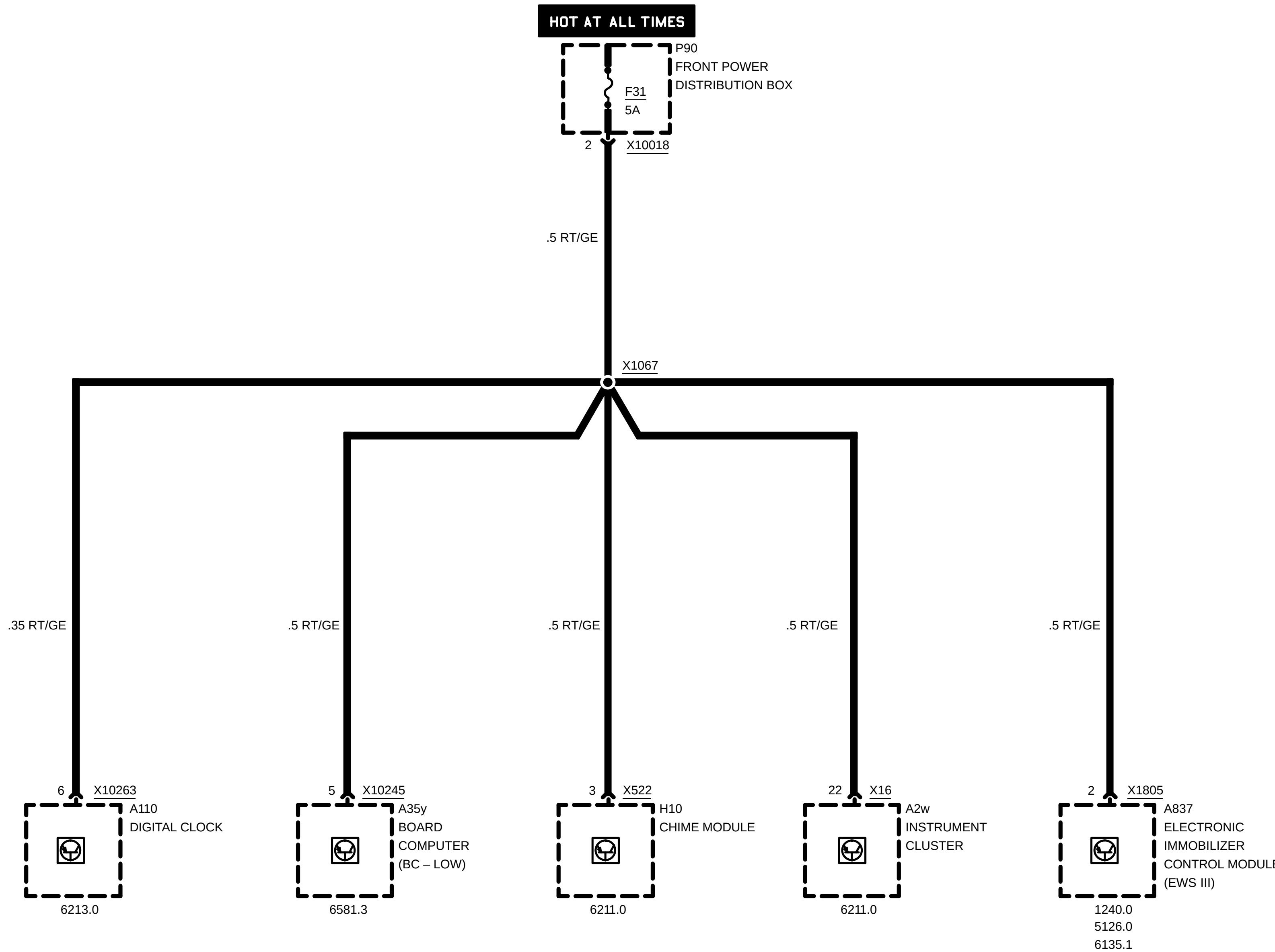
FUSES 26, 27, 28, 29, AND 30



BMW 3 compact

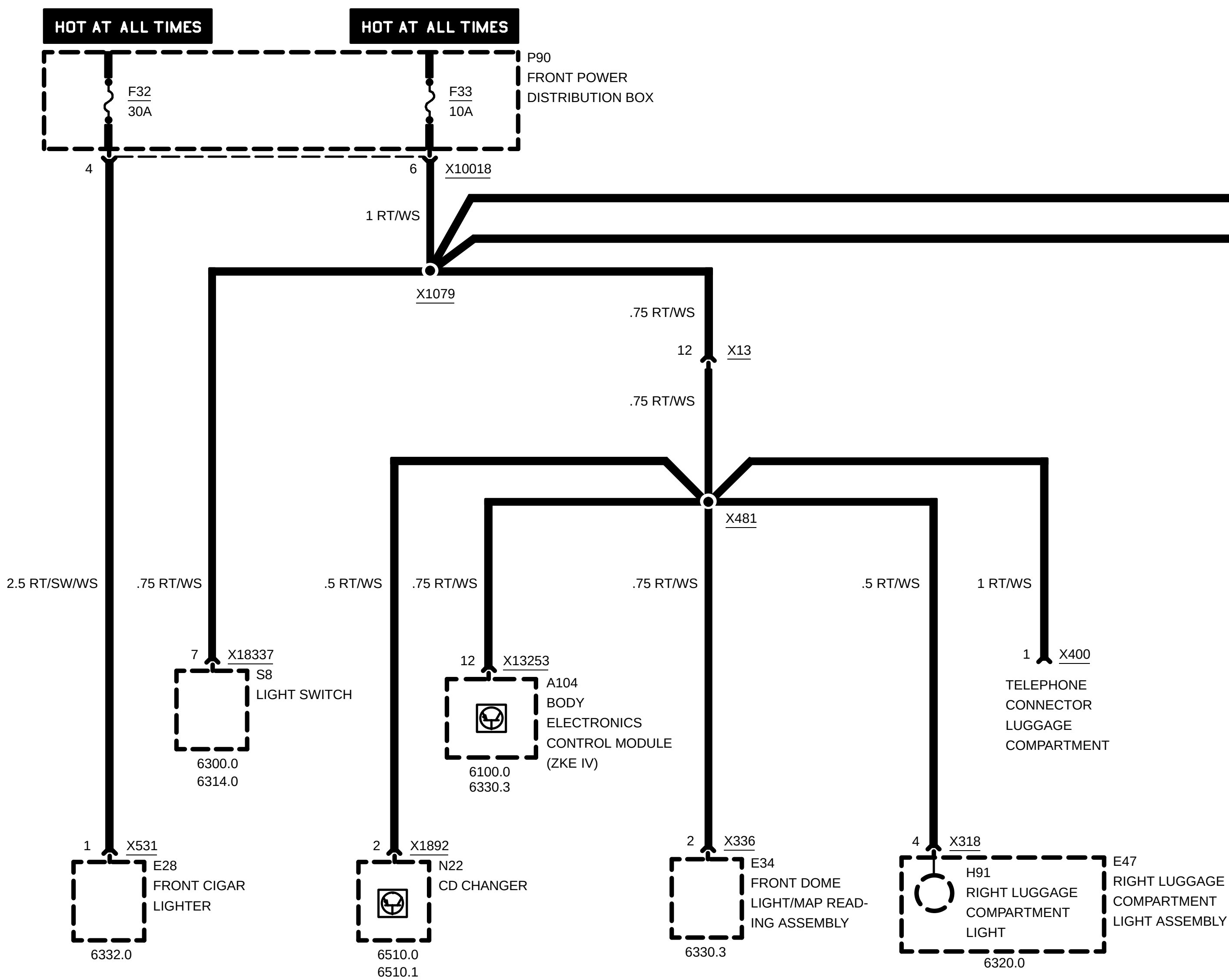
FUSE DETAILS

FUSE 31



FUSE DETAILS

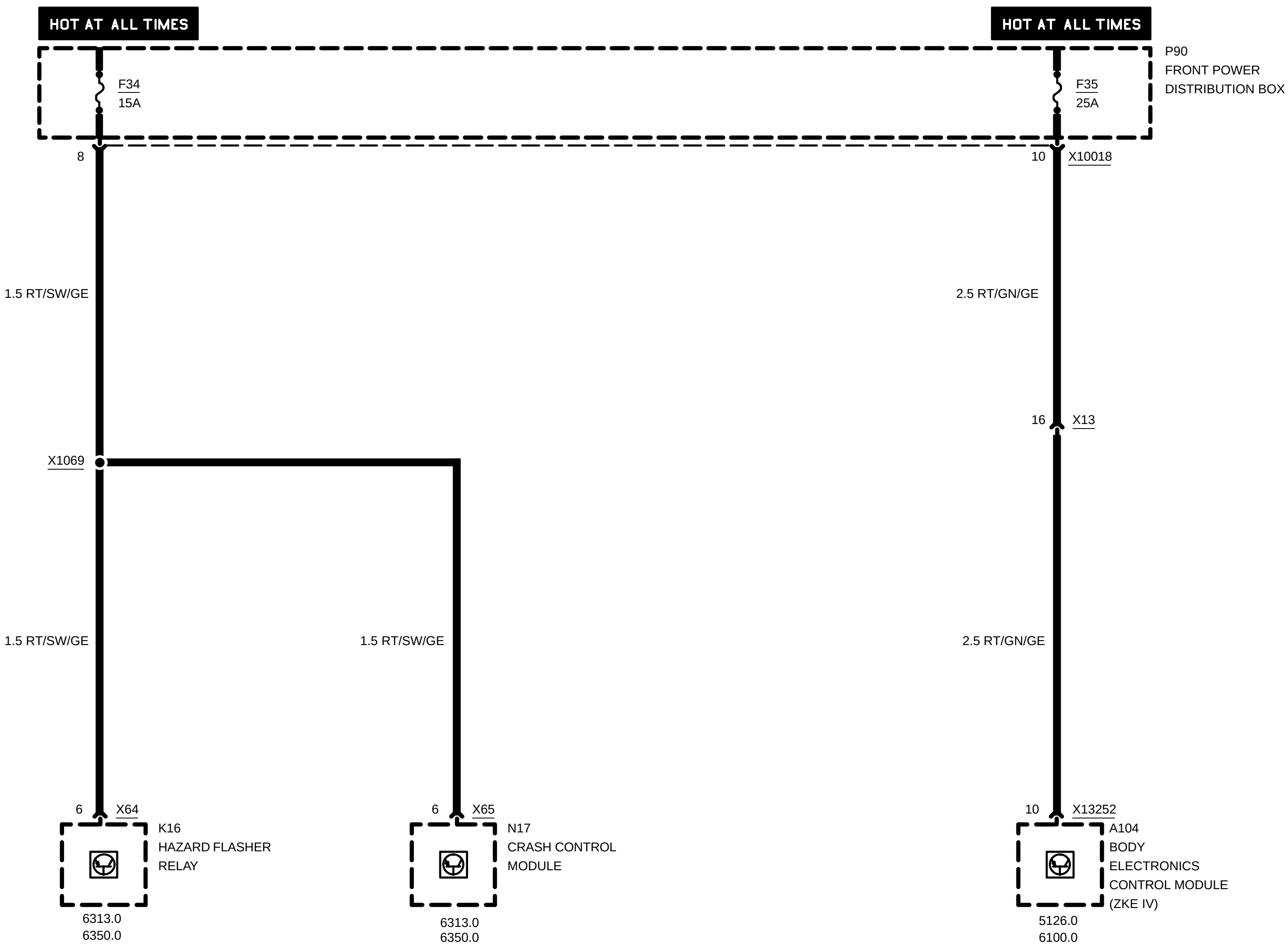
FUSES 32 AND 33



BMW 3 compact

FUSE DETAILS

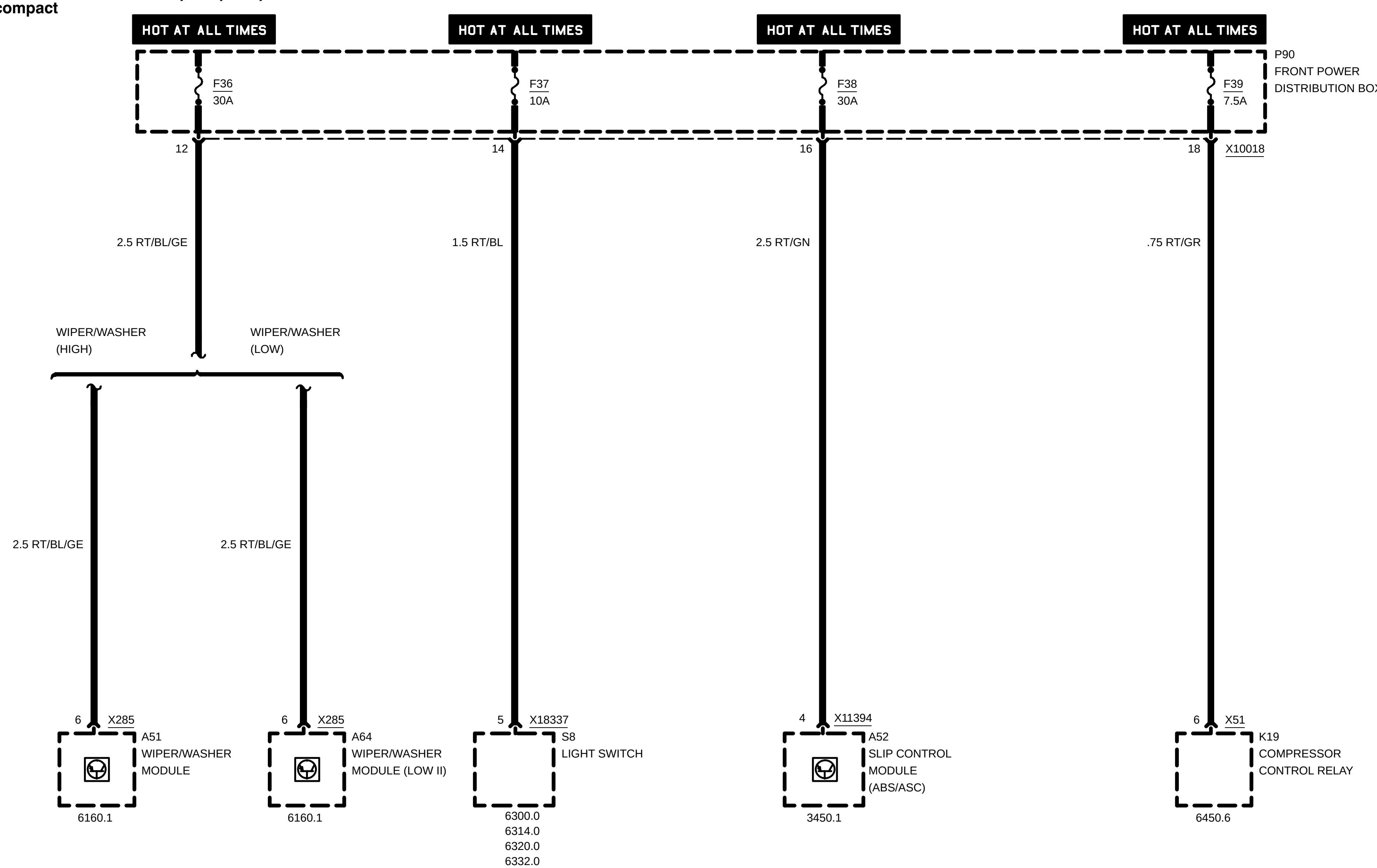
FUSES 34 AND 35



BMW 3 compact

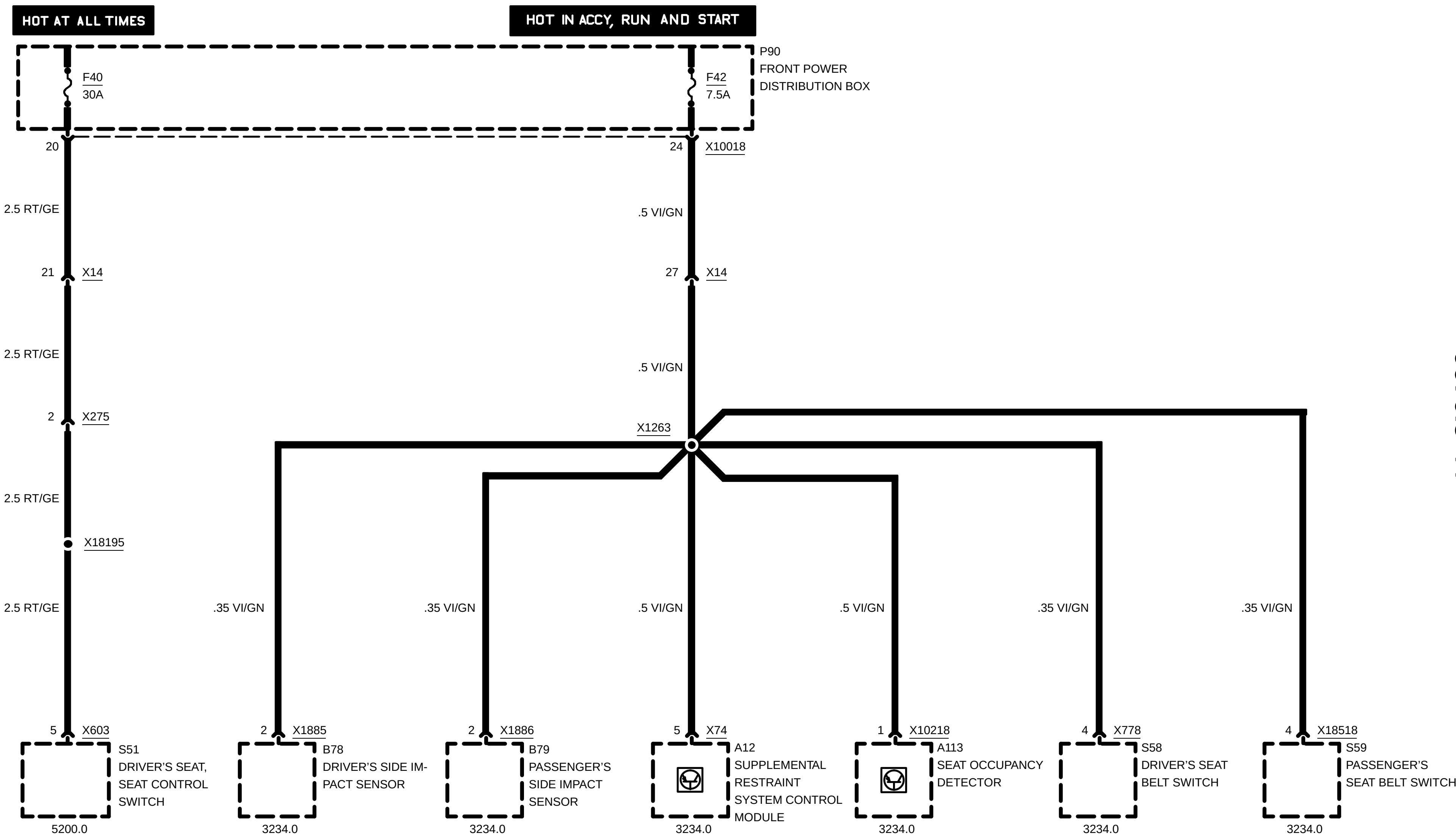
FUSE DETAILS

FUSES 36, 37, 38, AND 39



FUSE DETAILS

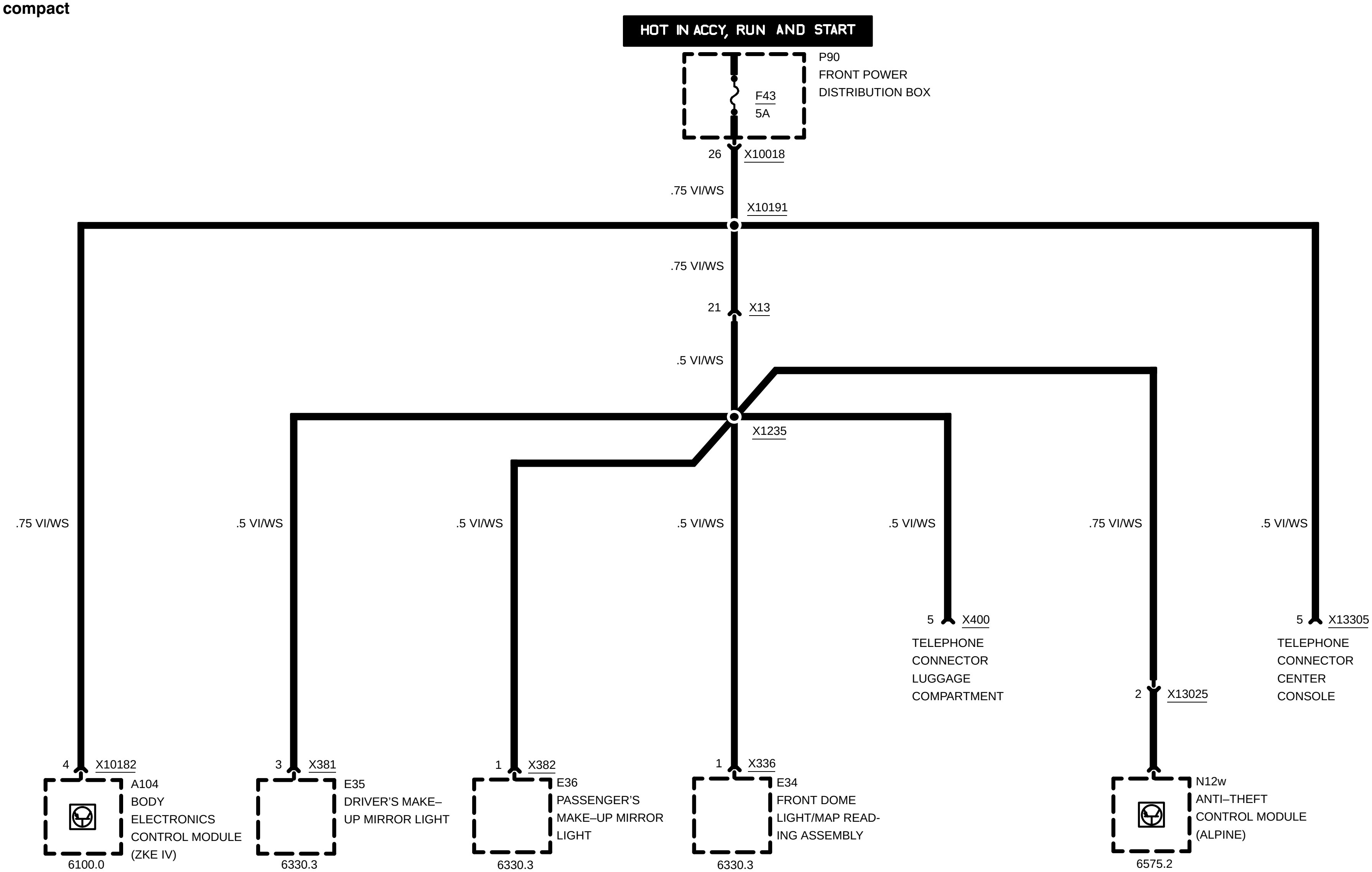
FUSES 40 AND 42



BMW 3 compact

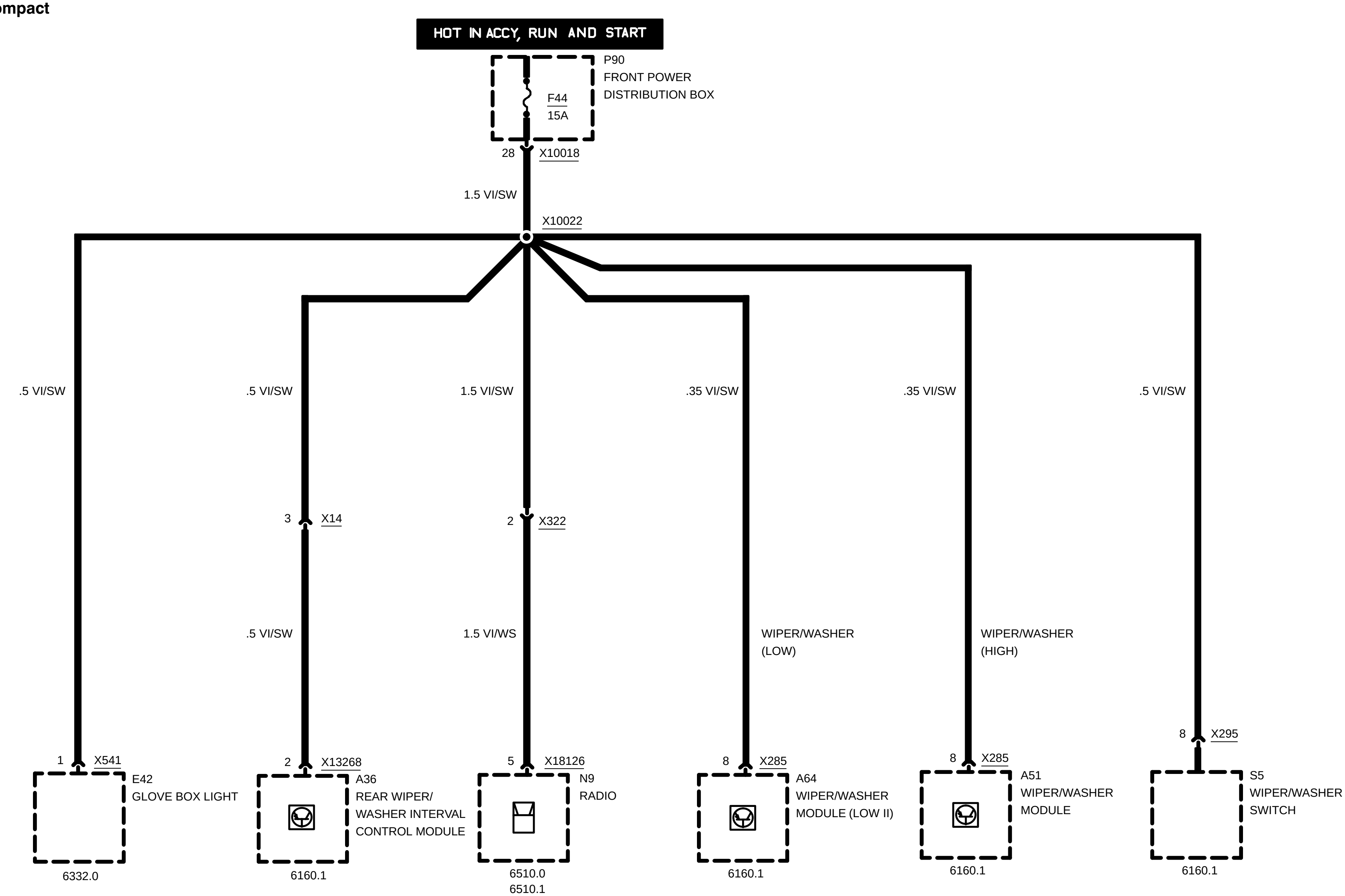
FUSE DETAILS

FUSE 43



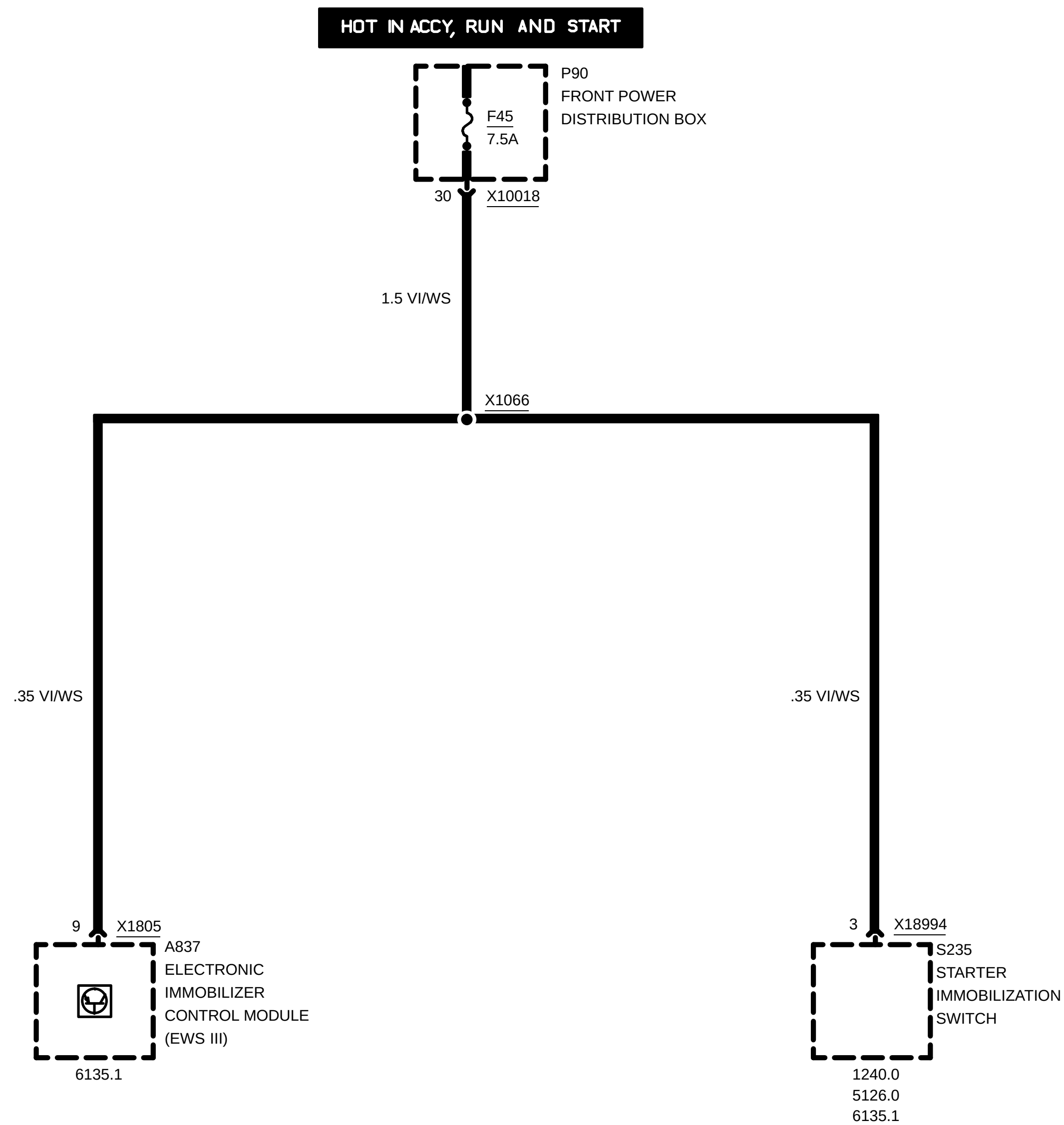
FUSE DETAILS

FUSE 44



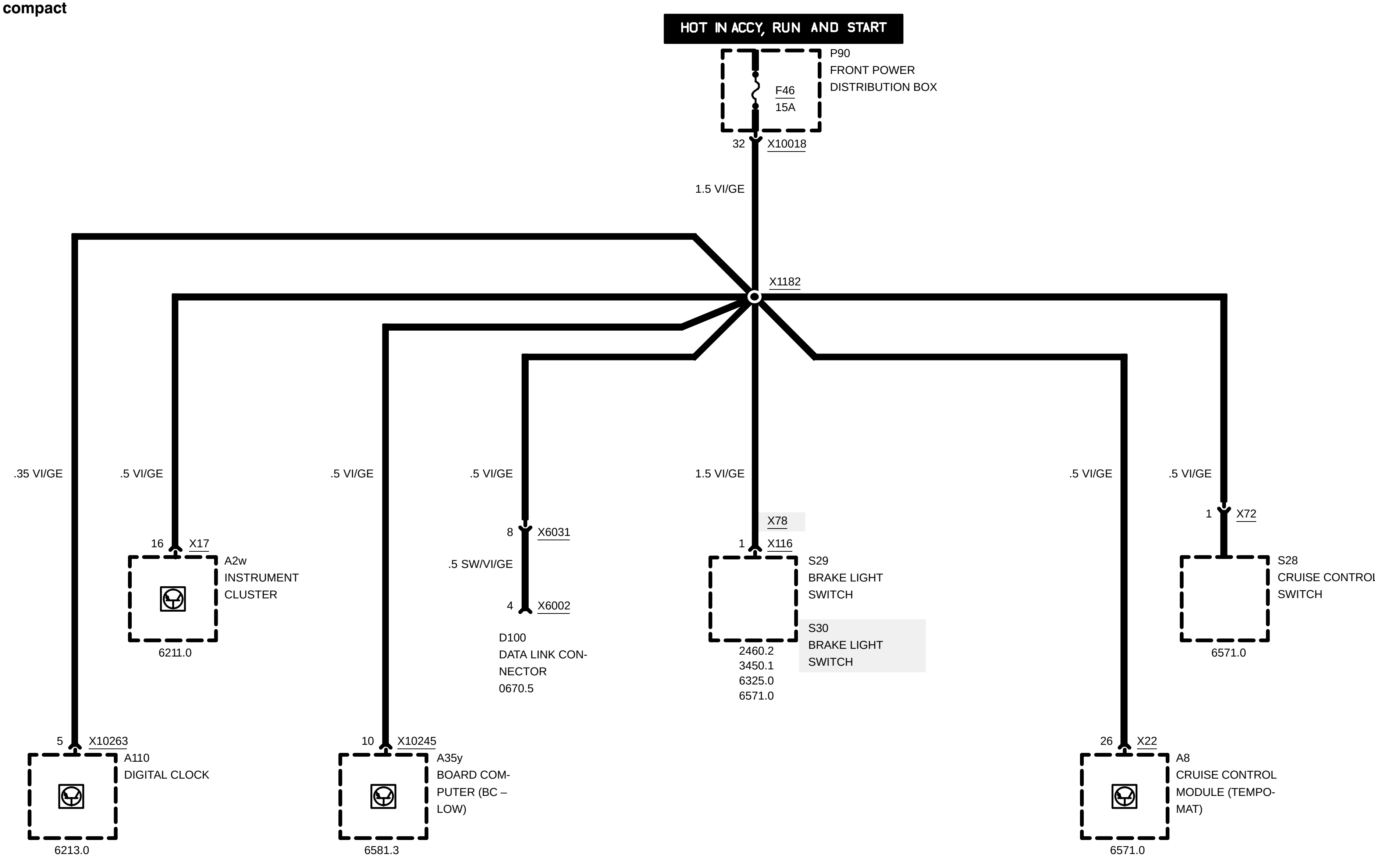
FUSE DETAILS

FUSE 45



FUSE DETAILS

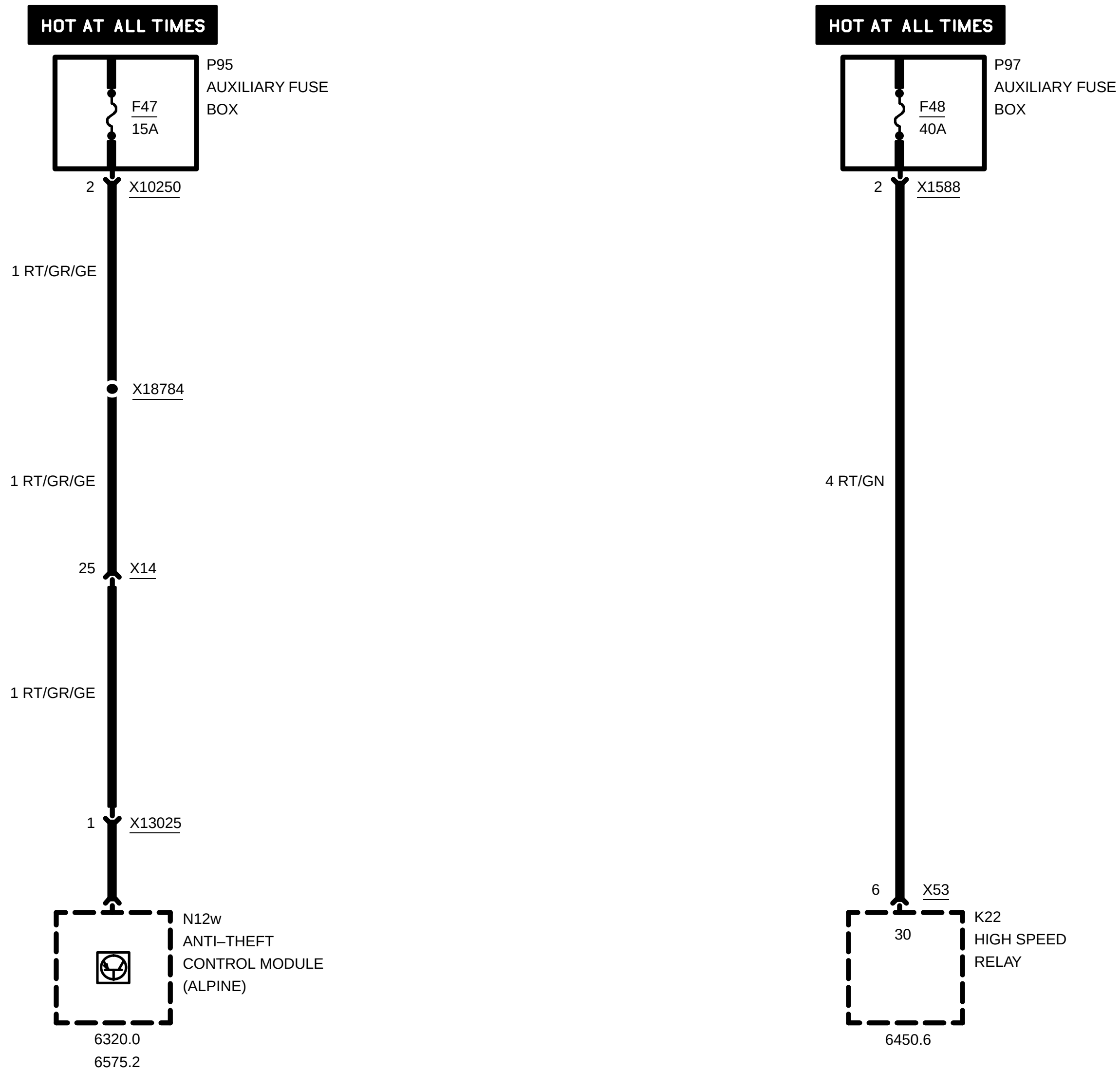
FUSE 46



BMW 3 compact

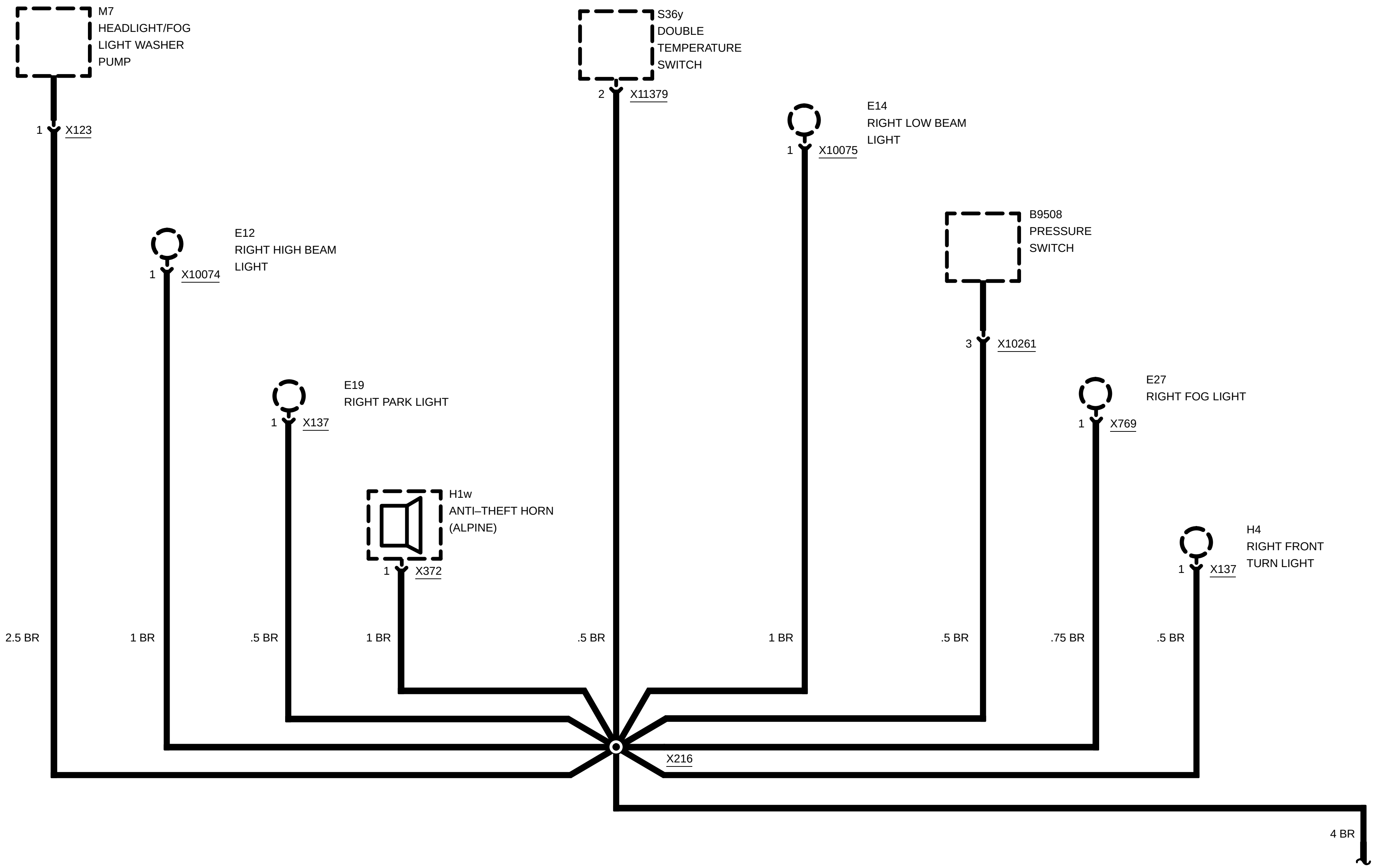
FUSE DETAILS

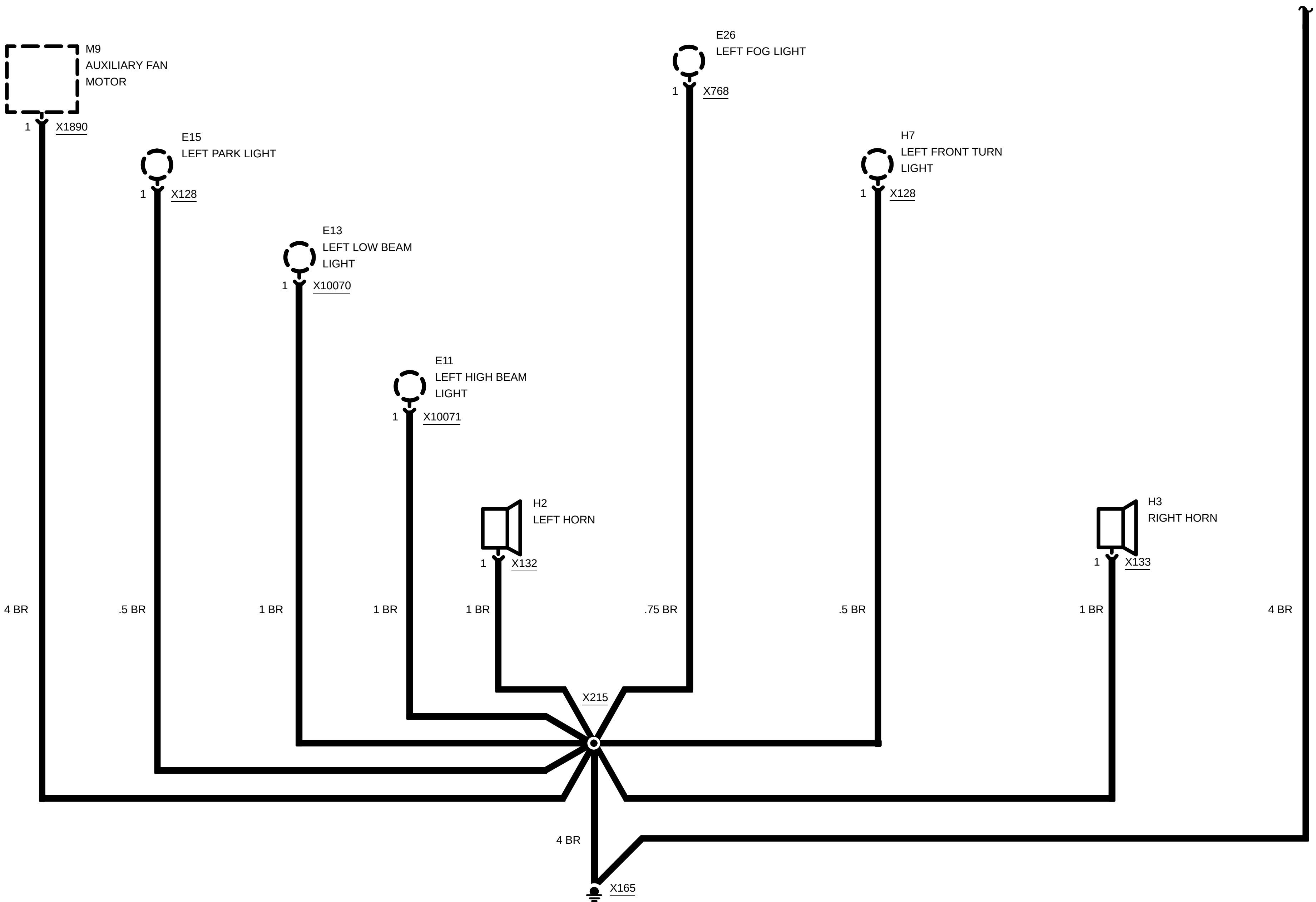
FUSES 47 AND 48



0670.4 GROUND DISTRIBUTION

GROUND X165





03/00

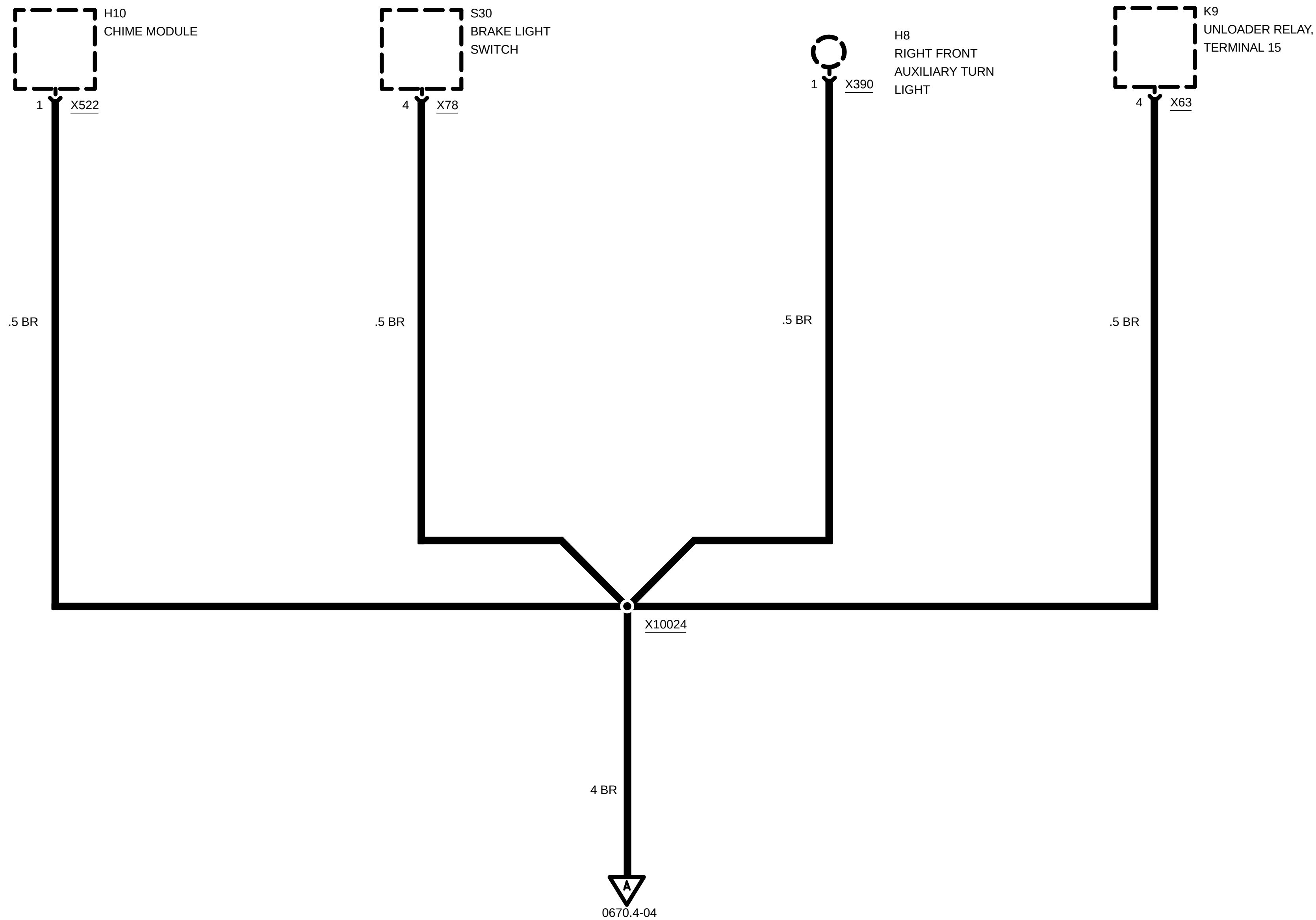
0670.4-01

1999

BMW 3 compact

GROUND DISTRIBUTION

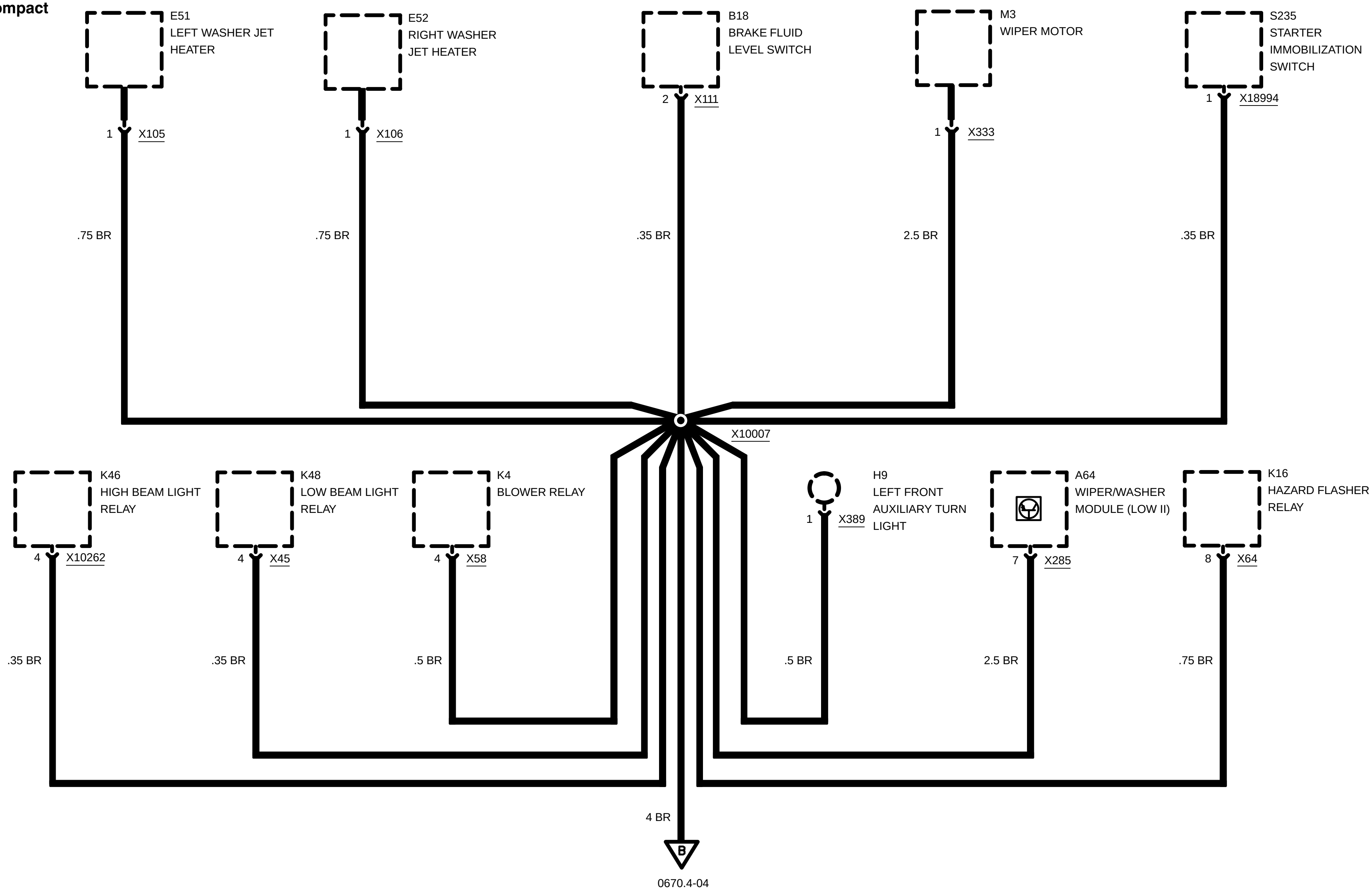
GROUND X173



BMW 3 compact

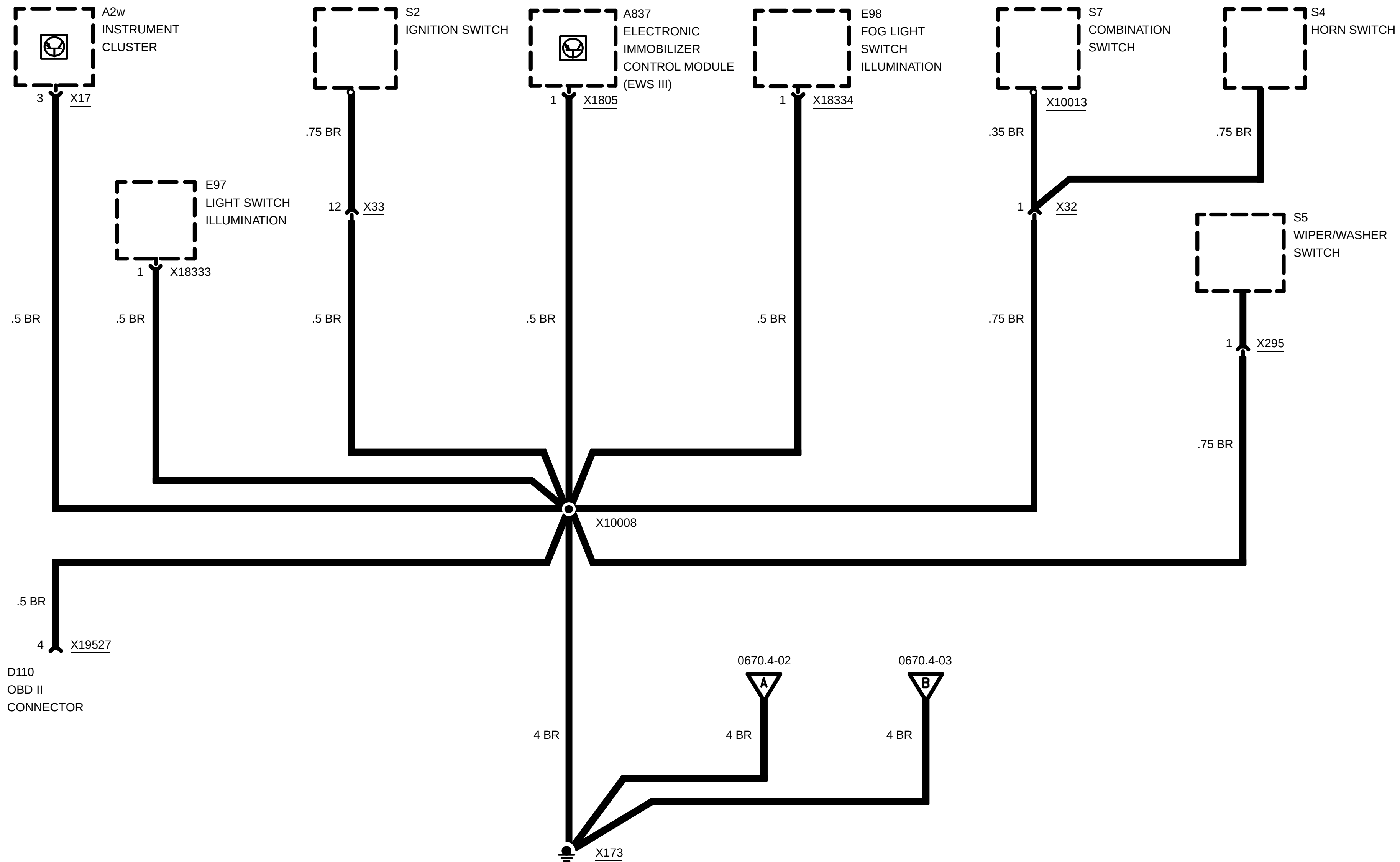
GROUND DISTRIBUTION

GROUND X173



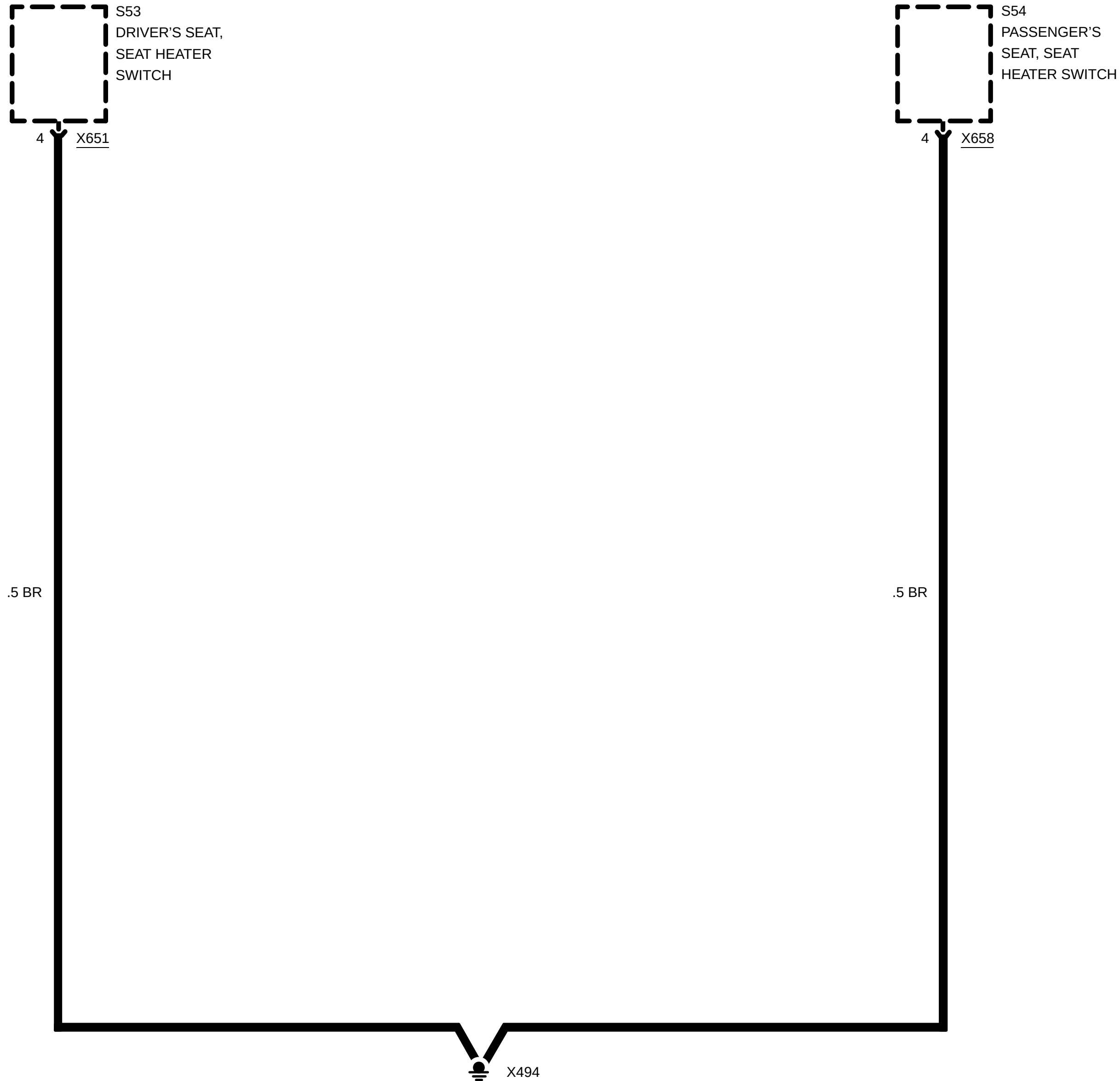
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

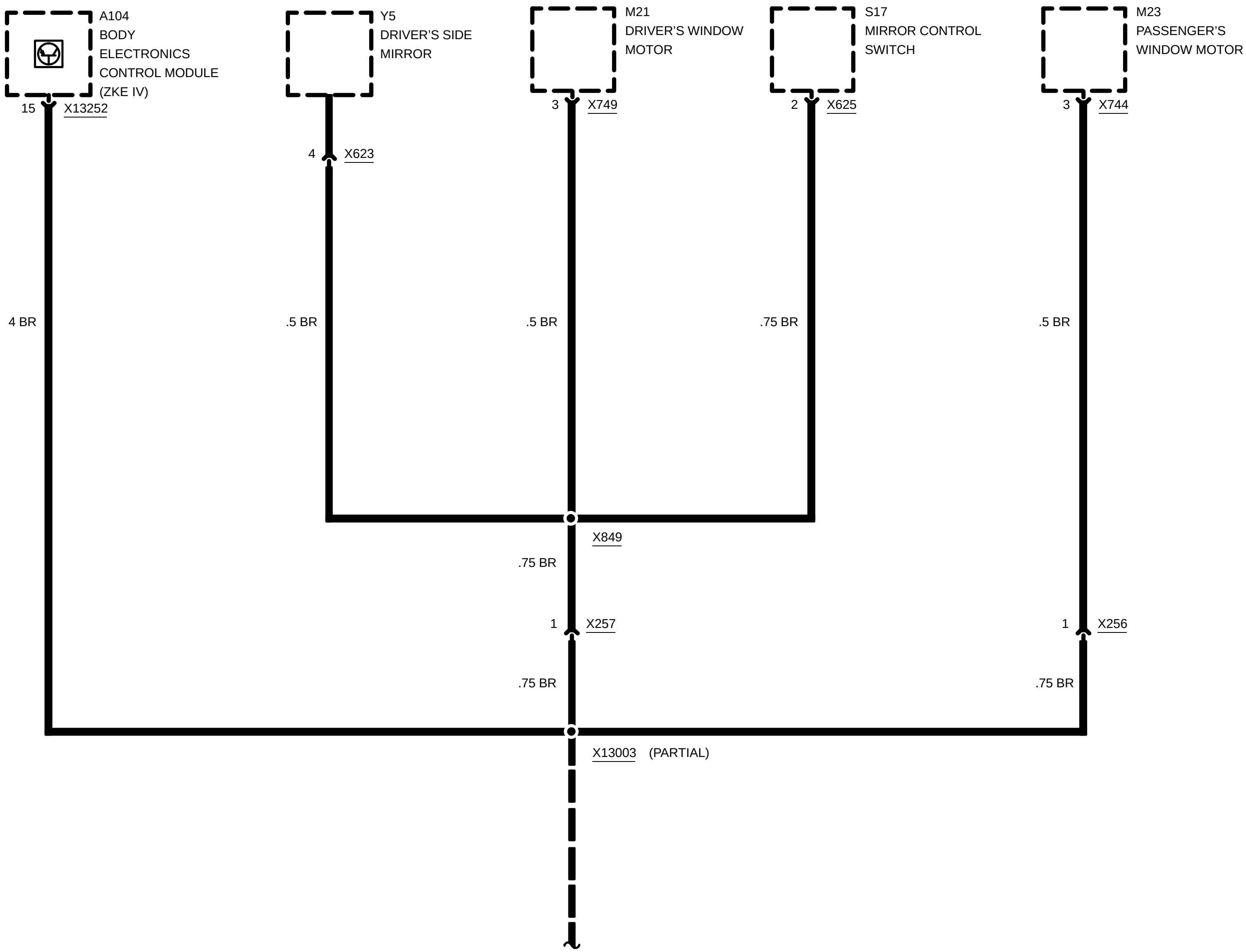
GROUND X494

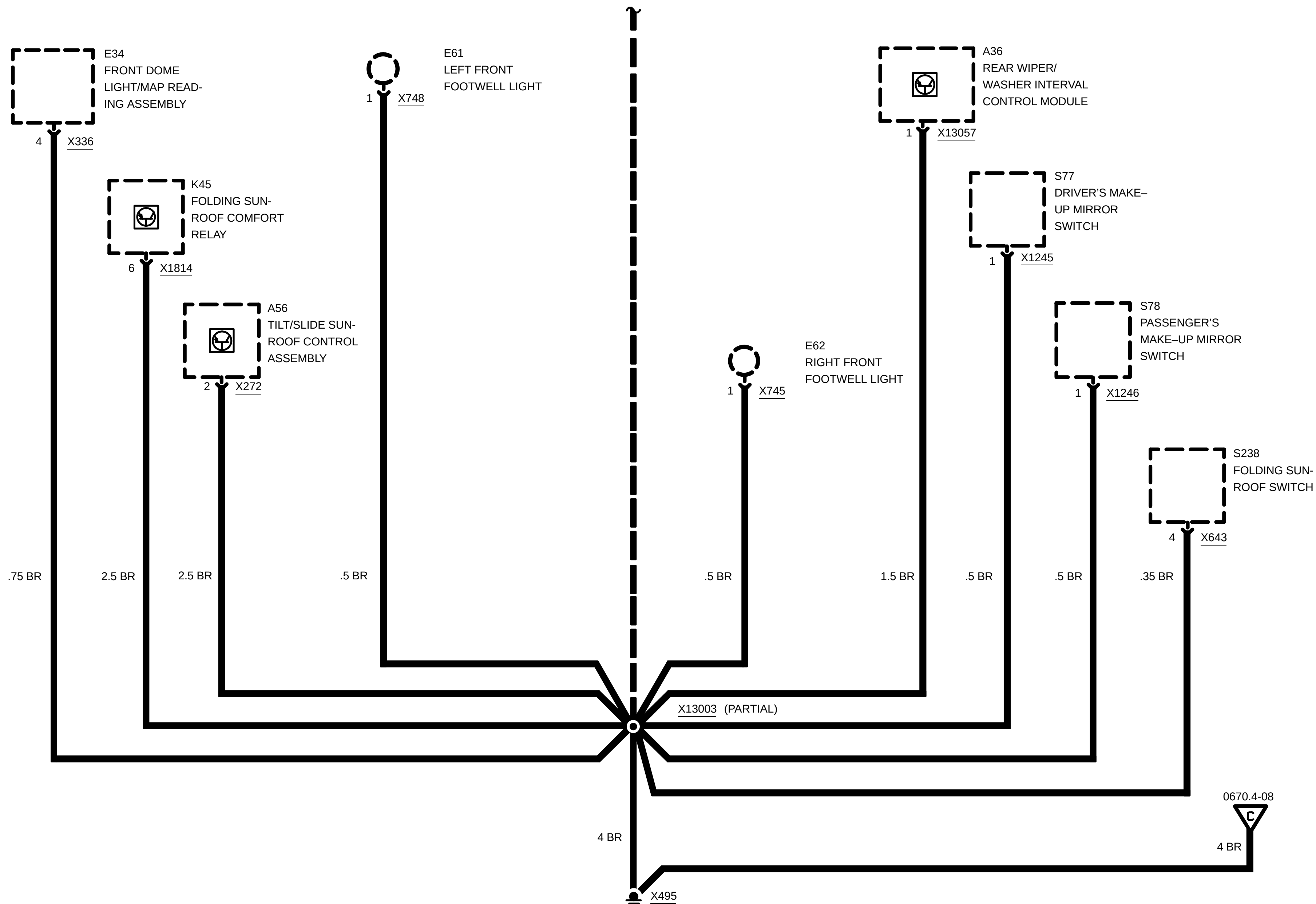


BMW 3 compact

GROUND DISTRIBUTION

GROUND X495

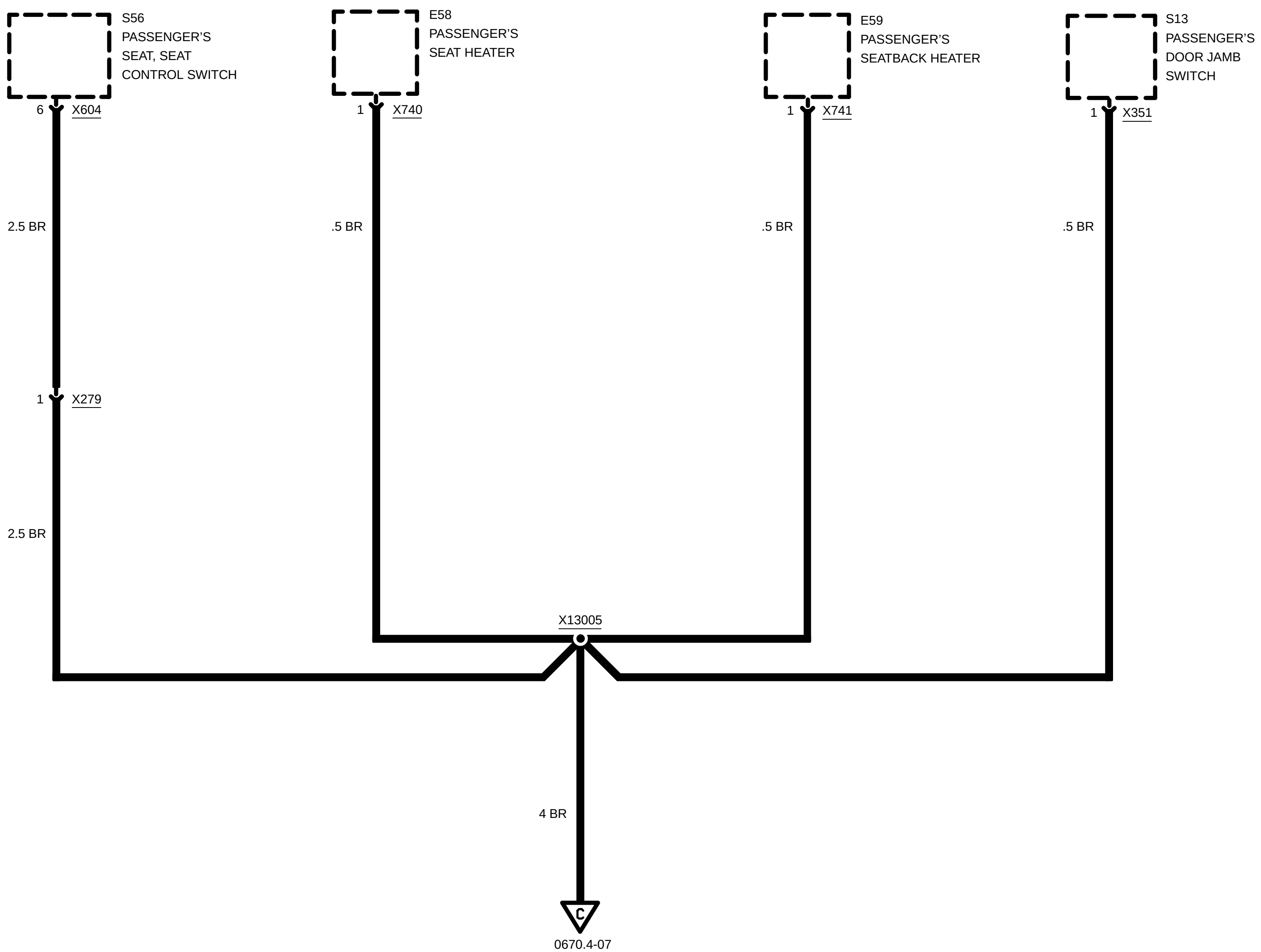



E34
FRONT DOME
LIGHT/MAP READ-
ING ASSEMBLY
4
X336
E61
LEFT FRONT
FOOTWELL LIGHT
1
X748
A36
REAR WIPER/
WASHER INTERVAL
CONTROL MODULE
1
X13057
K45
FOLDING SUN-
ROOF COMFORT
RELAY
6
X1814
S77
DRIVER'S MAKE–
UP MIRROR
SWITCH
1
X1245
A56
TILT/SLIDE SUN-
ROOF CONTROL
ASSEMBLY
2
X272
S78
PASSENGER'S
MAKE–UP MIRROR
SWITCH
1
X1246
E62
RIGHT FRONT
FOOTWELL LIGHT
1
X745
S238
FOLDING SUN-
ROOF SWITCH
4
X643
.75 BR
2.5 BR
2.5 BR
.5 BR
.5 BR
1.5 BR
.5 BR
.5 BR
.35 BR
X13003 (PARTIAL)
0670.4-08
C
4 BR
4 BR
X495

BMW 3 compact

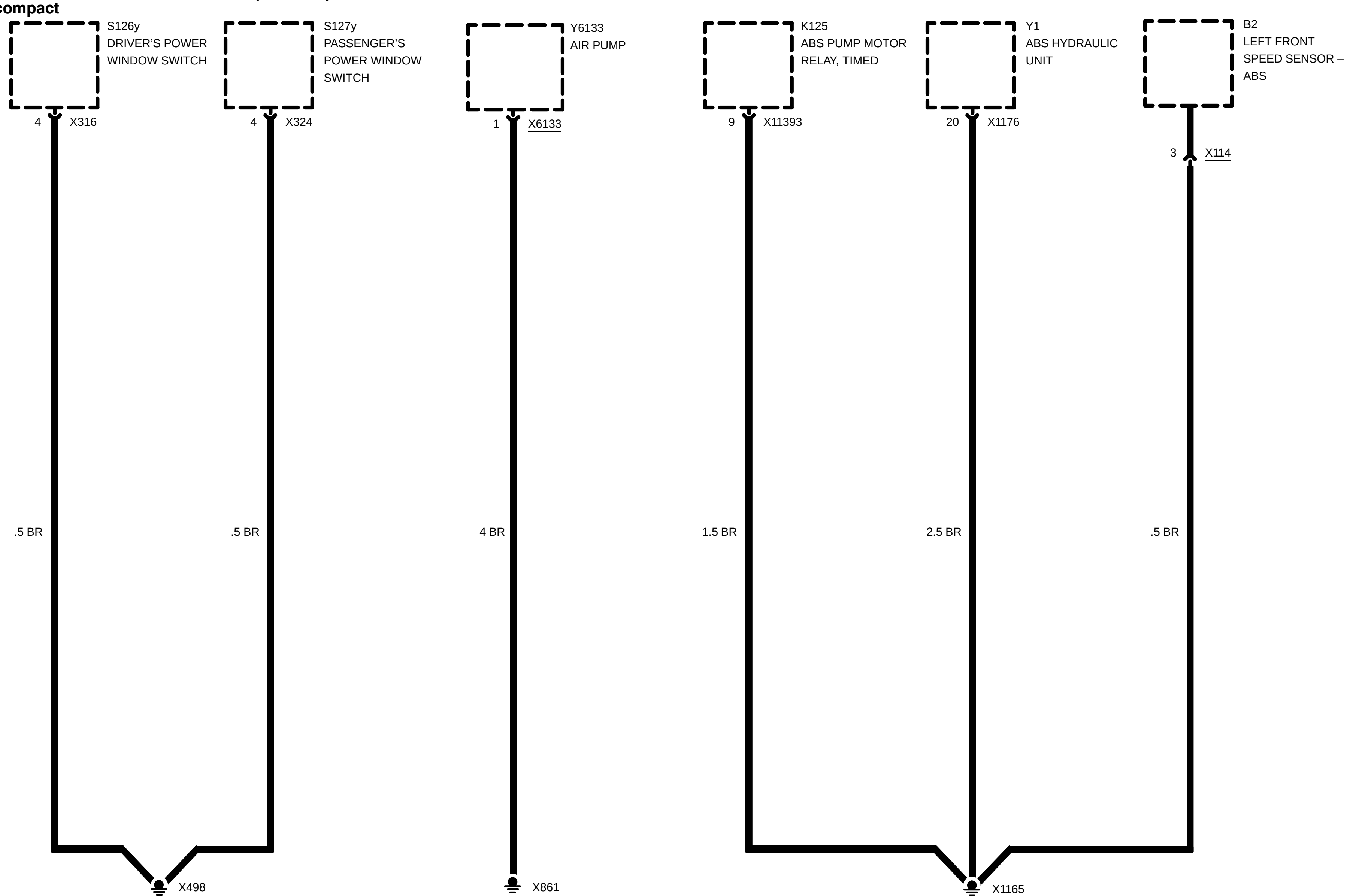
GROUND DISTRIBUTION

GROUND X495



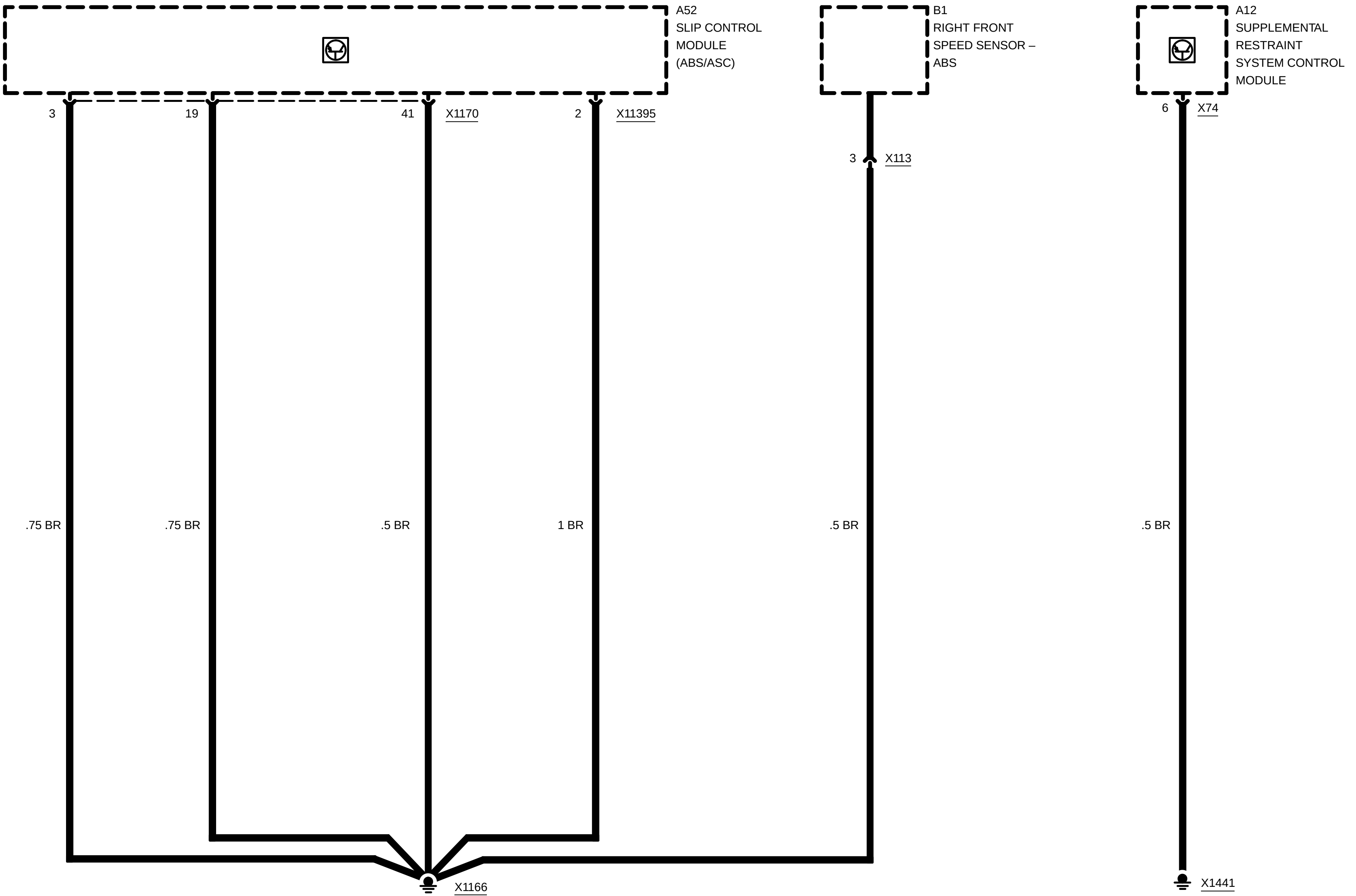
GROUND DISTRIBUTION

GROUNDS X498, X861, AND X1165



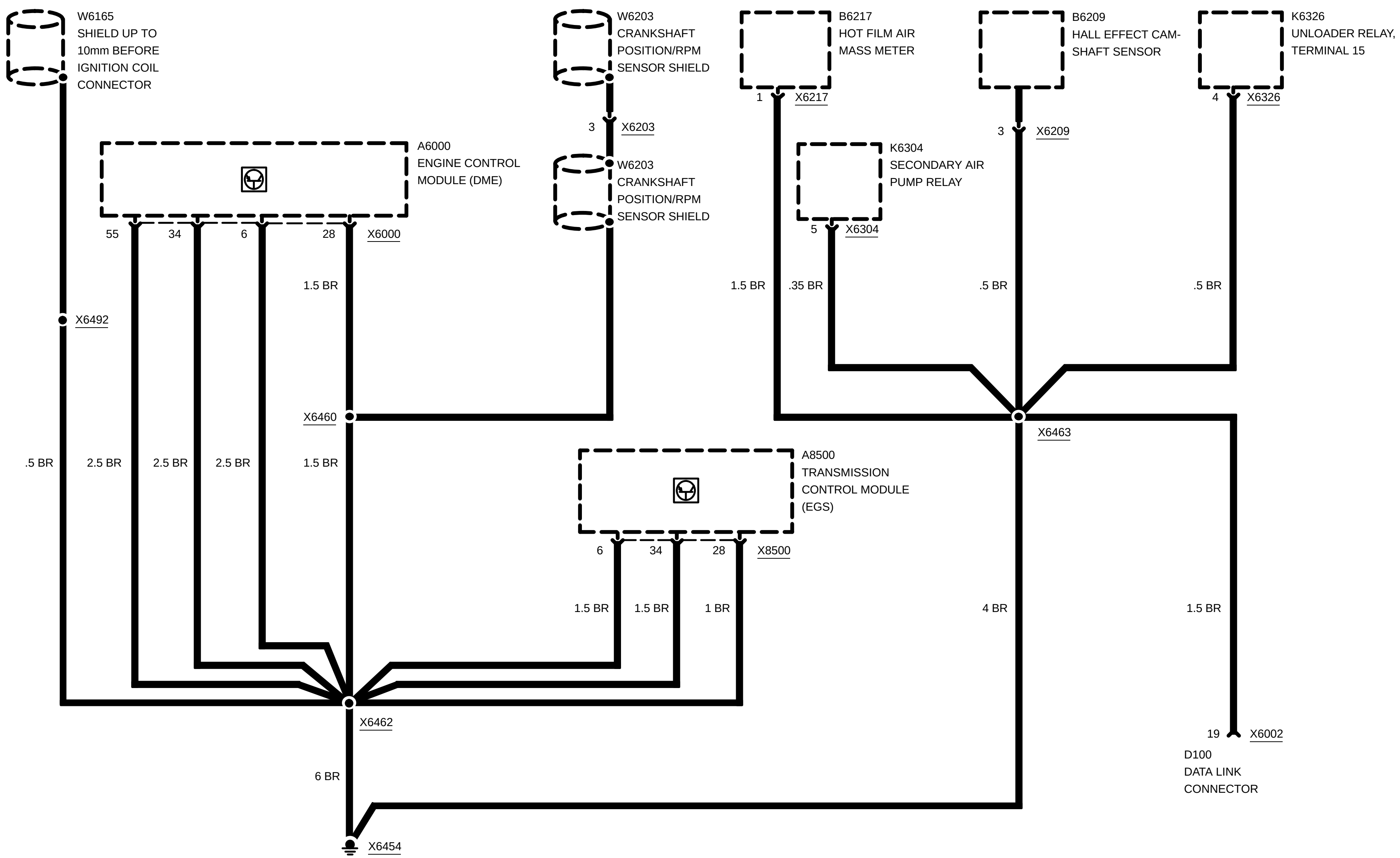
GROUND DISTRIBUTION

GROUNDS X1166 AND X1441



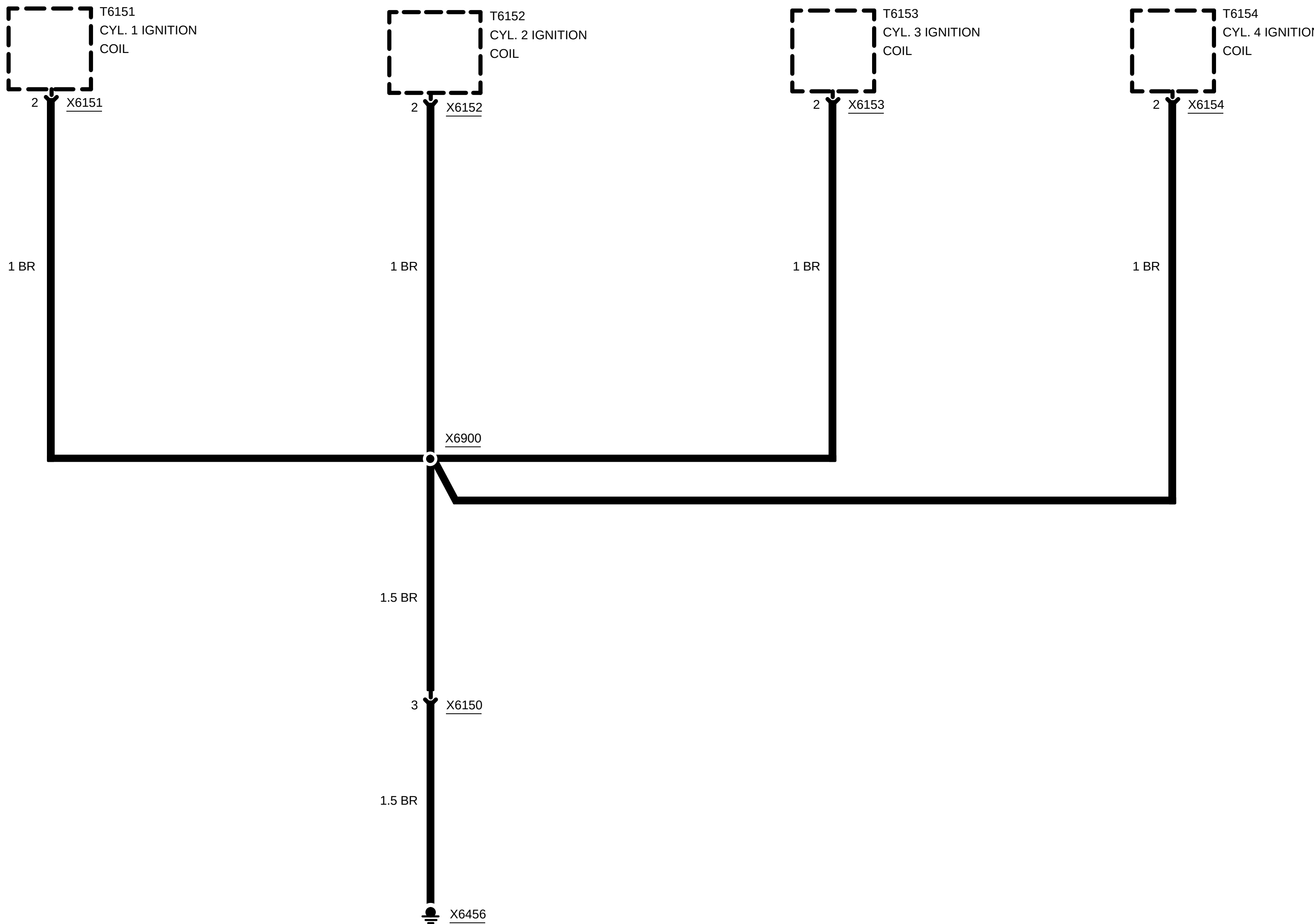
GROUND DISTRIBUTION

GROUND X6454



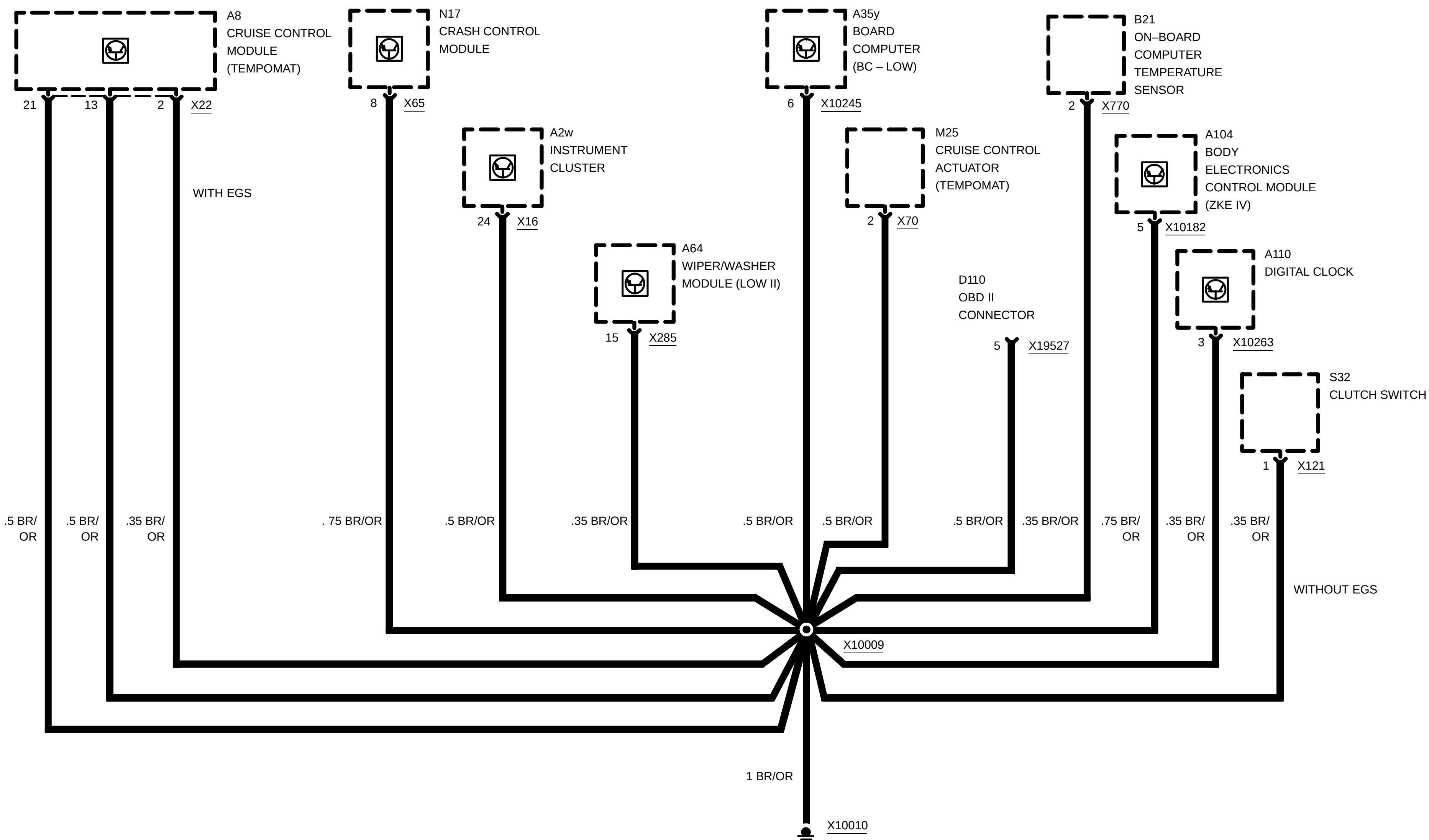
GROUND DISTRIBUTION

GROUND X6456



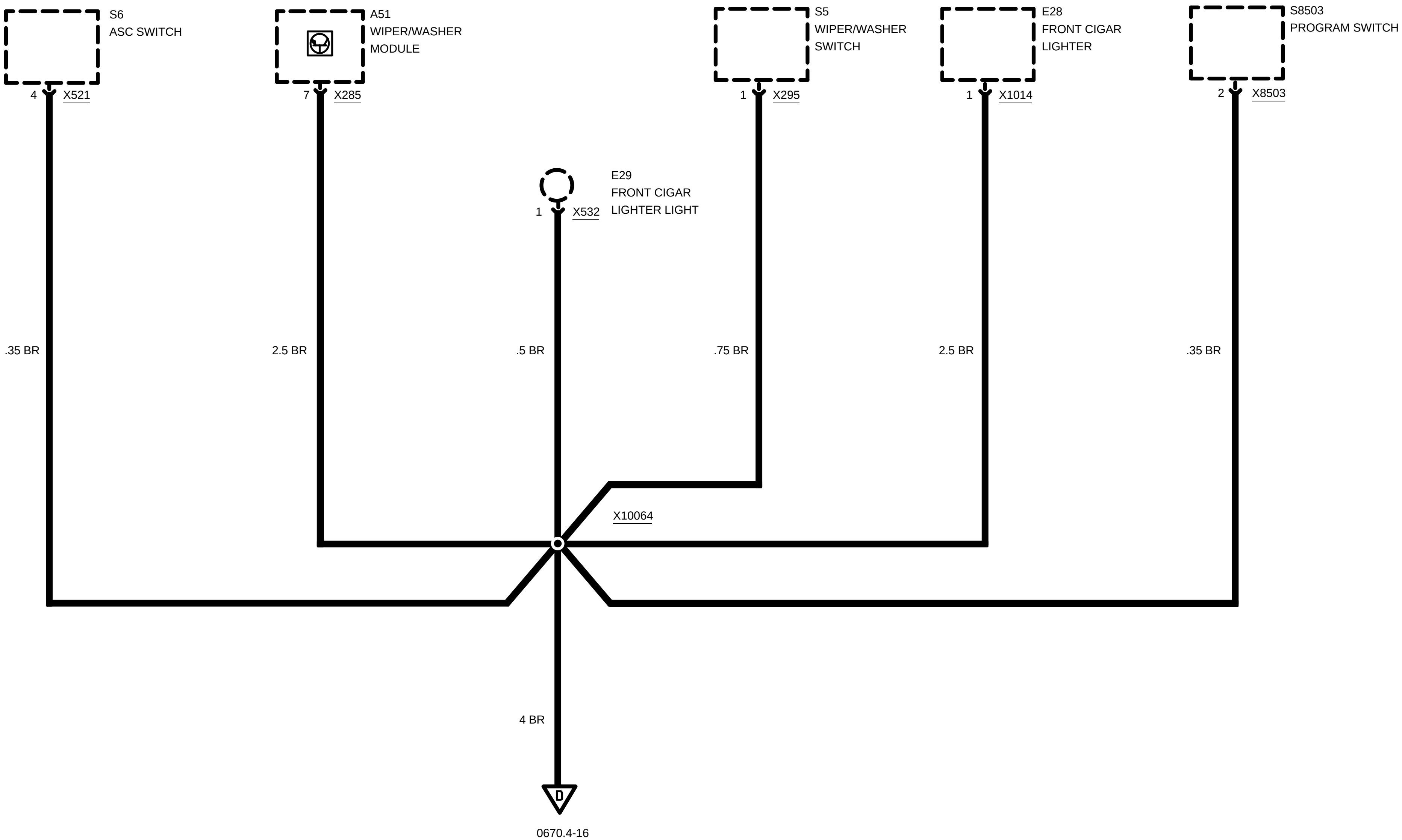
GROUND DISTRIBUTION

GROUND X10010



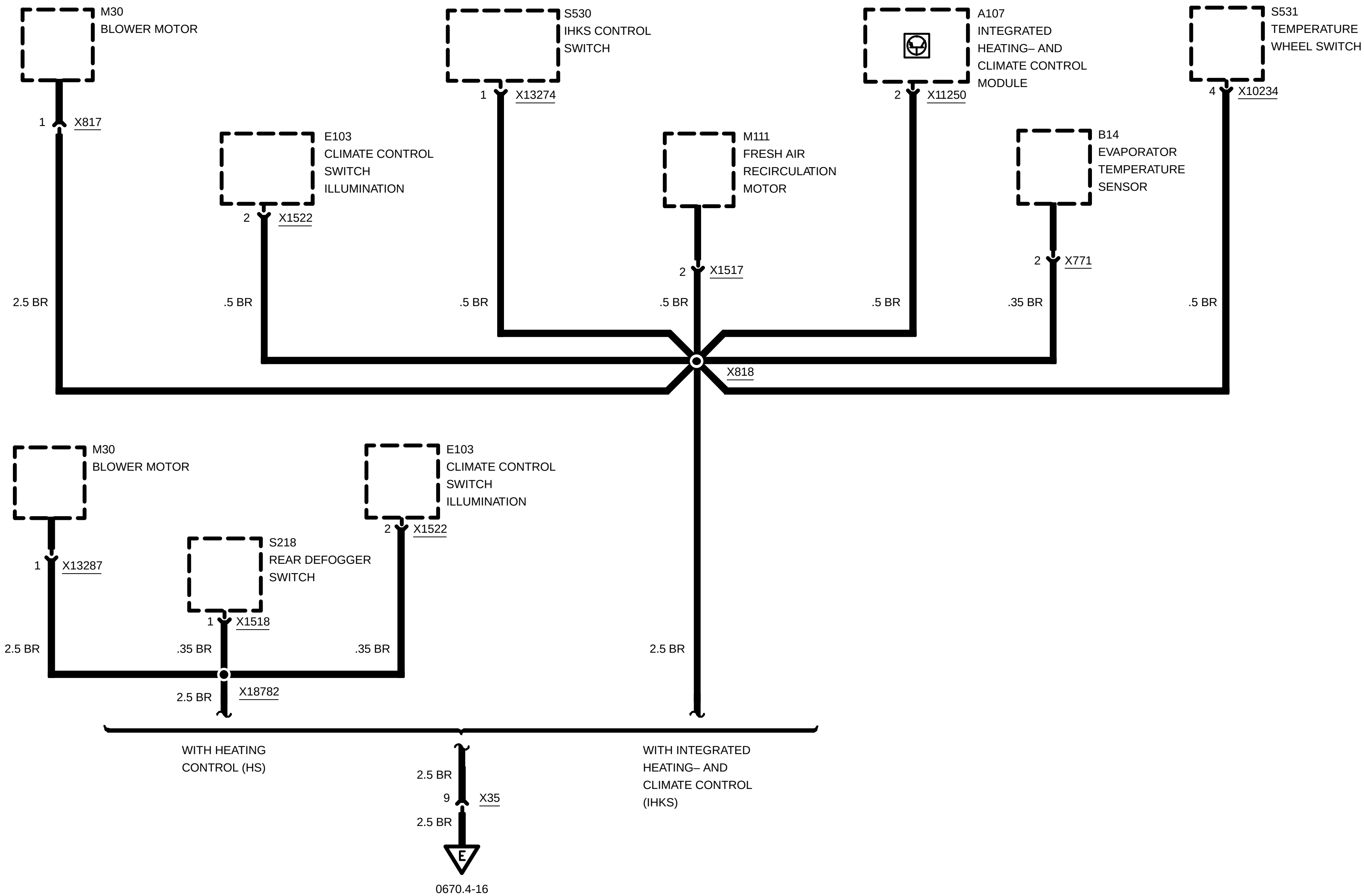
GROUND DISTRIBUTION

GROUND X10012



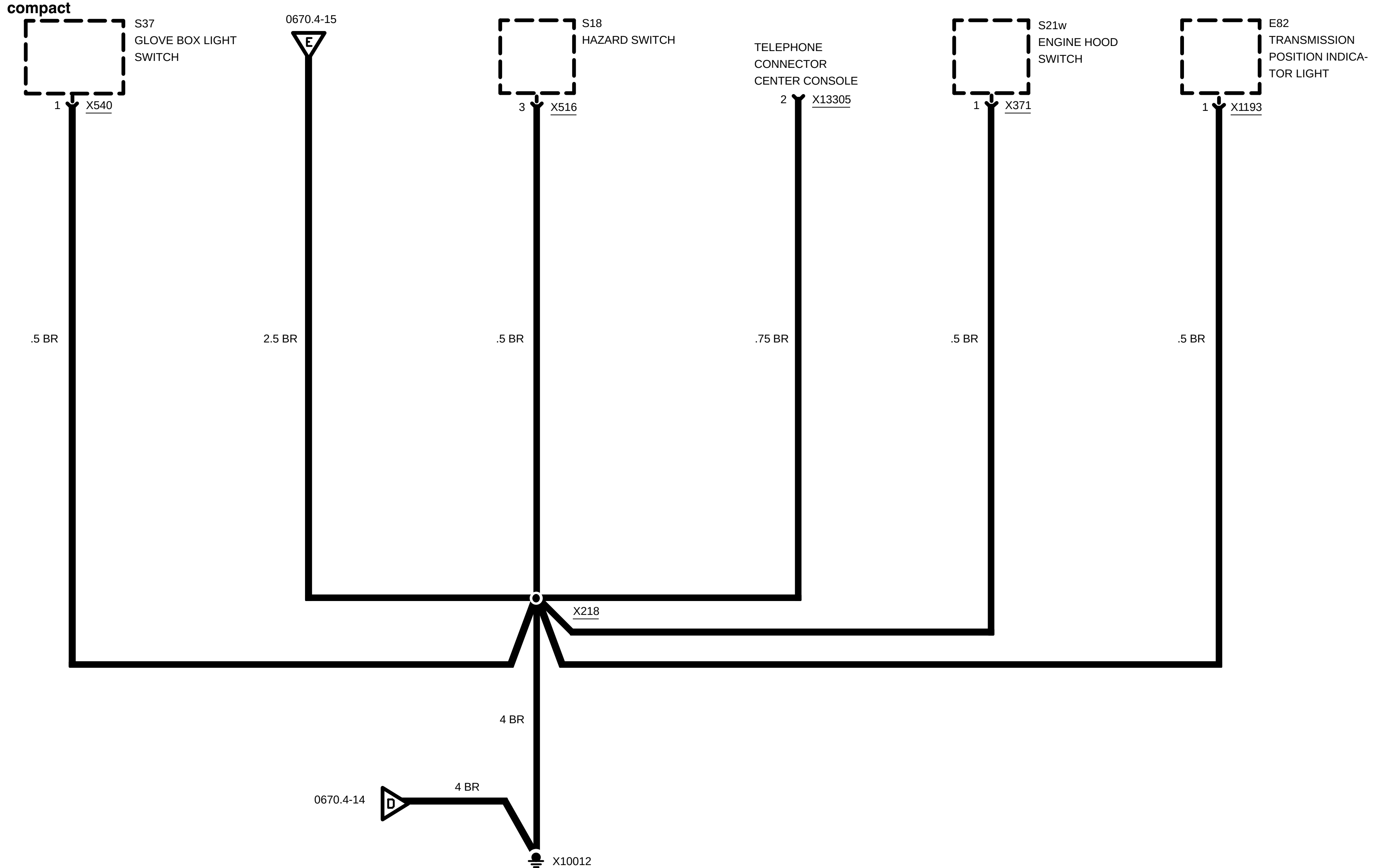
GROUND DISTRIBUTION

GROUND X10012



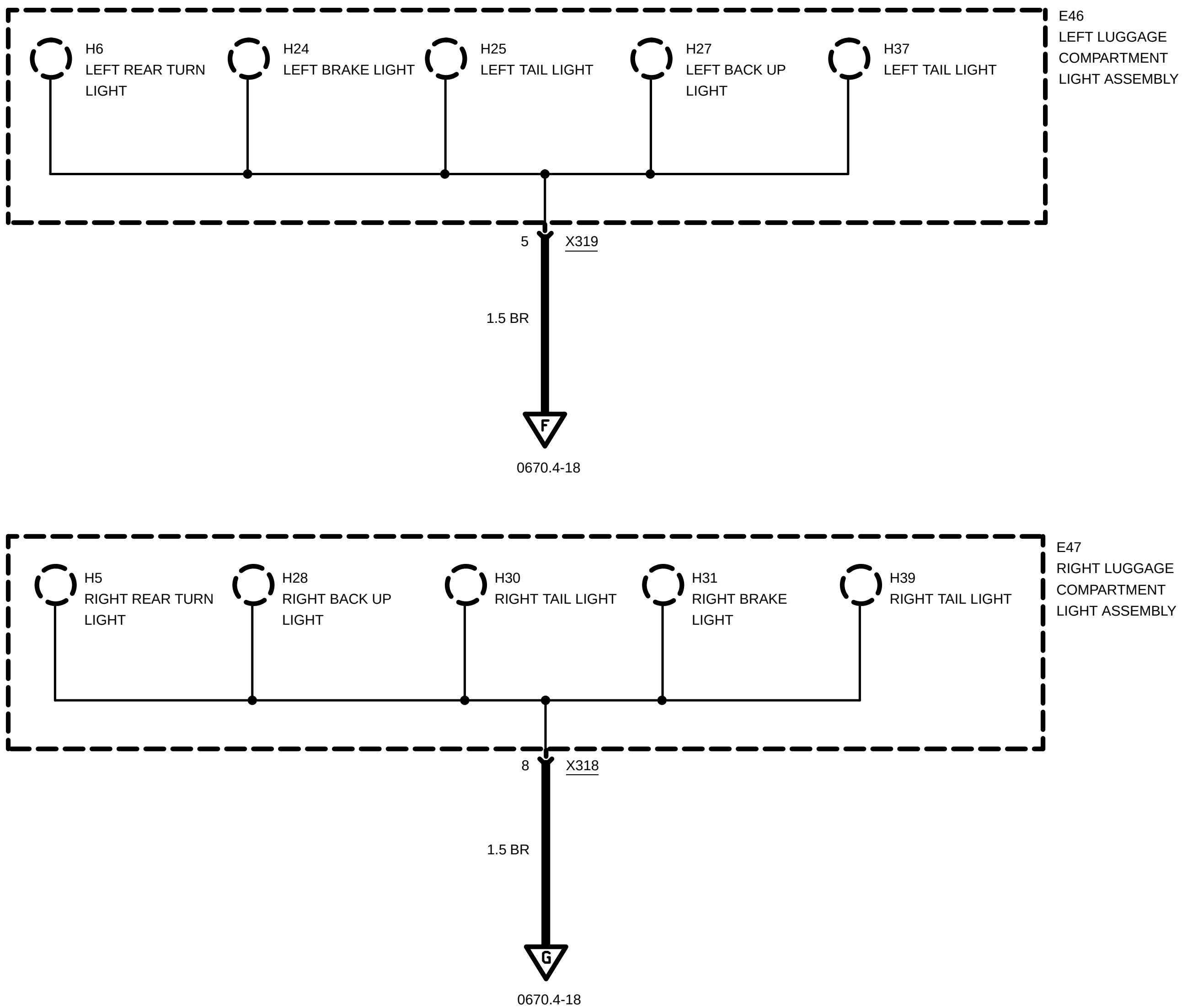
GROUND DISTRIBUTION

GROUND X10012



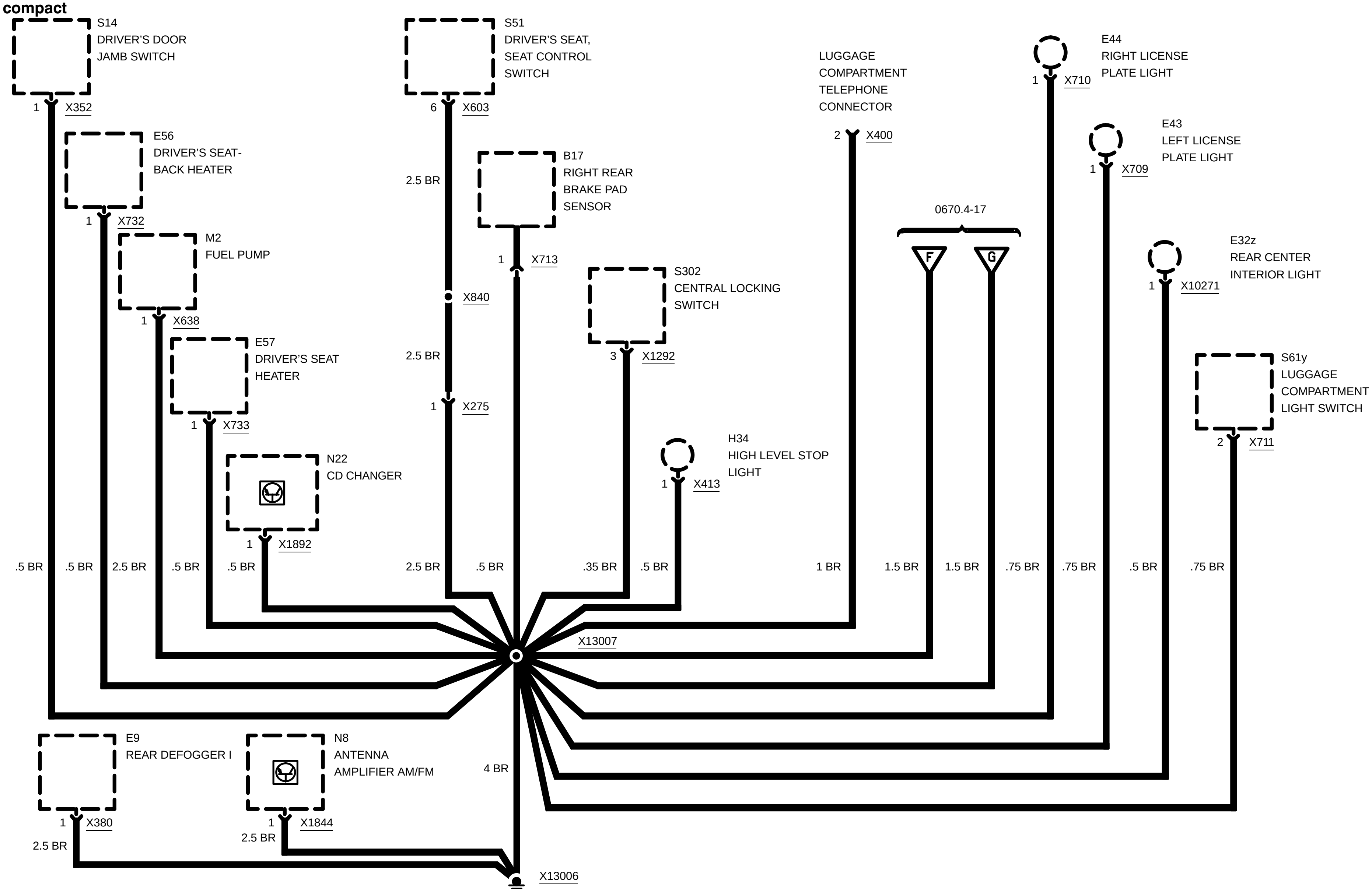
GROUND DISTRIBUTION

GROUND X13006



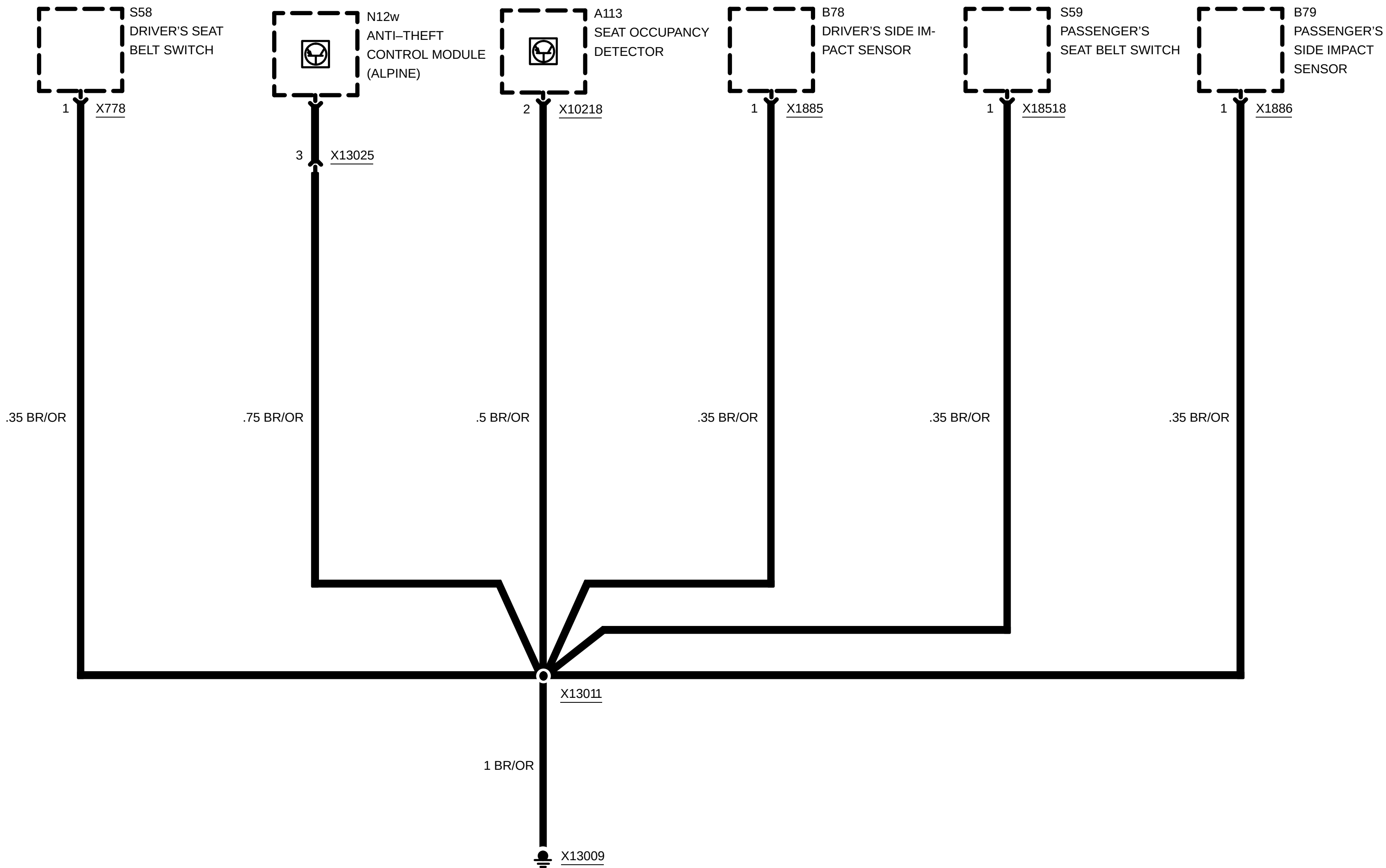
GROUND DISTRIBUTION

GROUND X13006



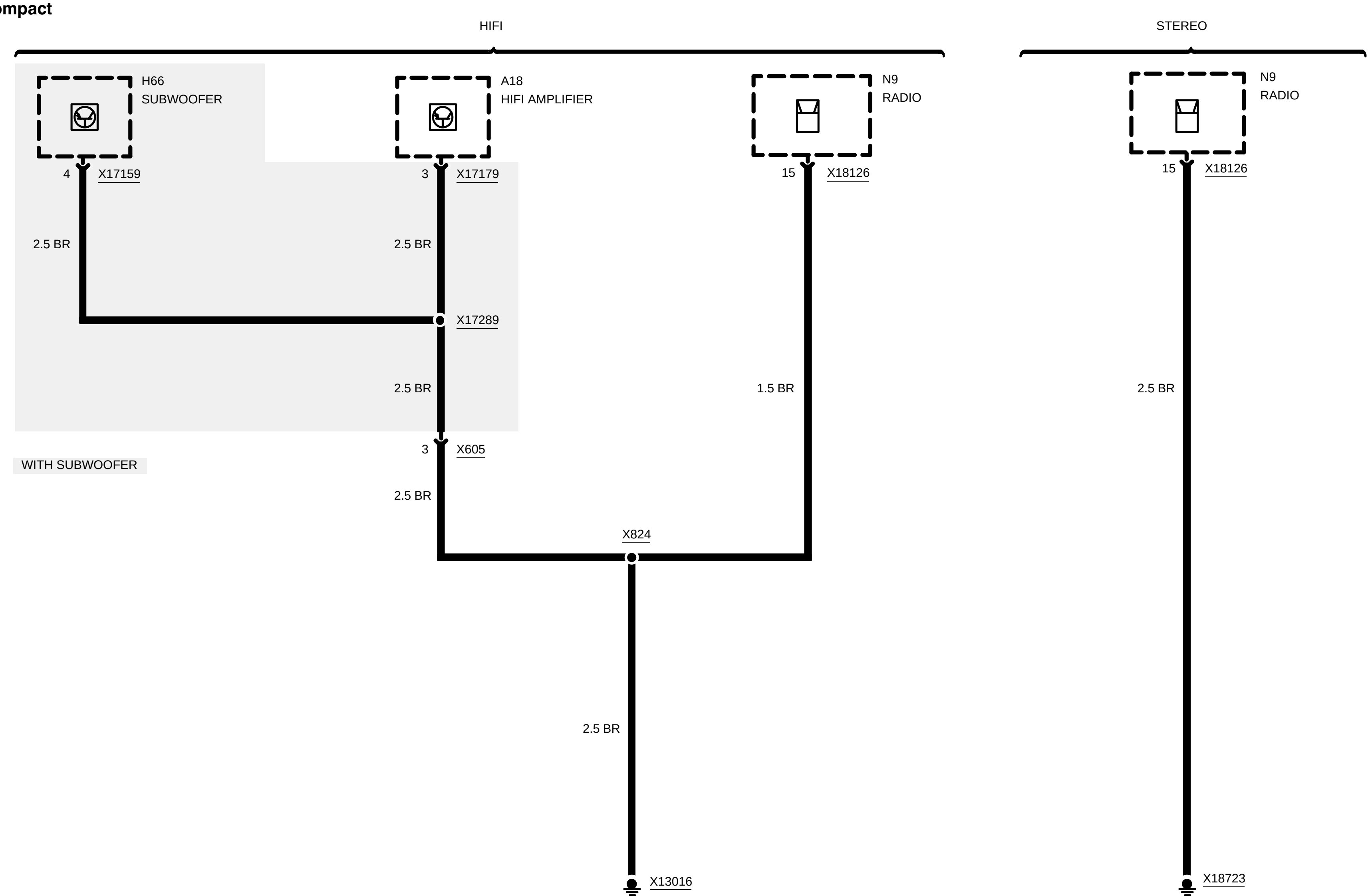
GROUND DISTRIBUTION

GROUND X13009



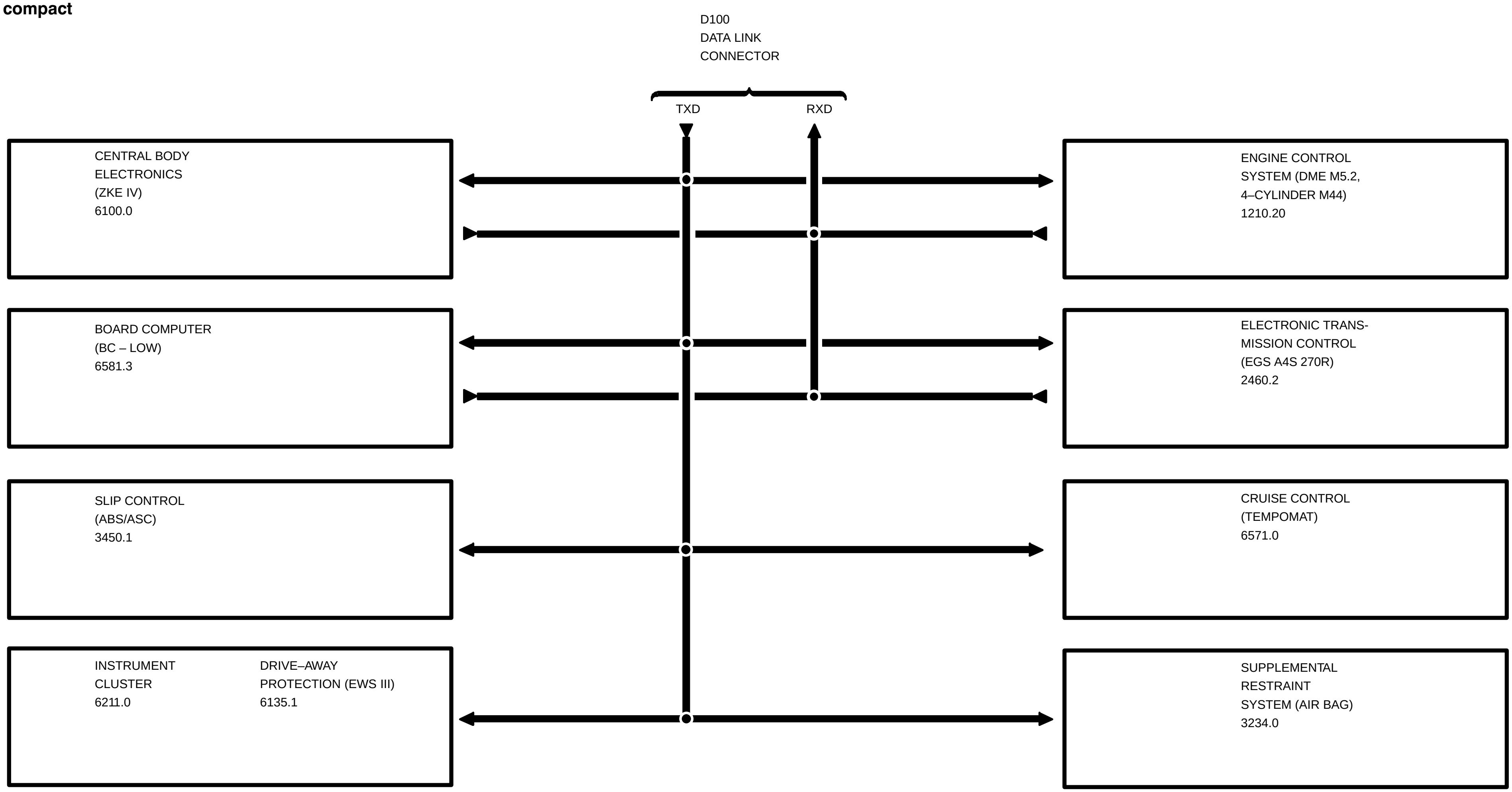
GROUND DISTRIBUTION

GROUNDS X13016 AND X18723



0670.5 DATA LINK

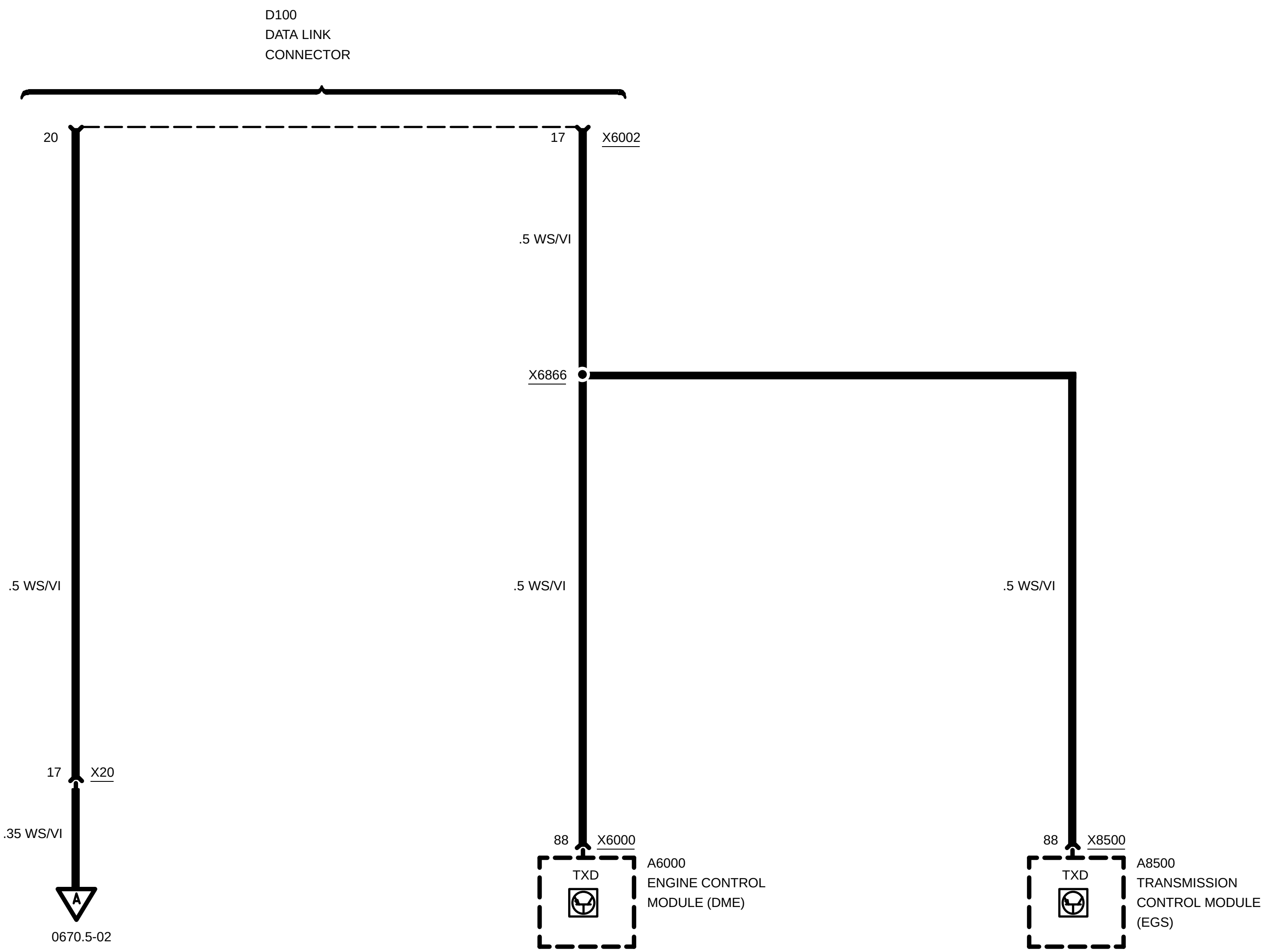
BLOCK DIAGRAM



BMW 3 compact

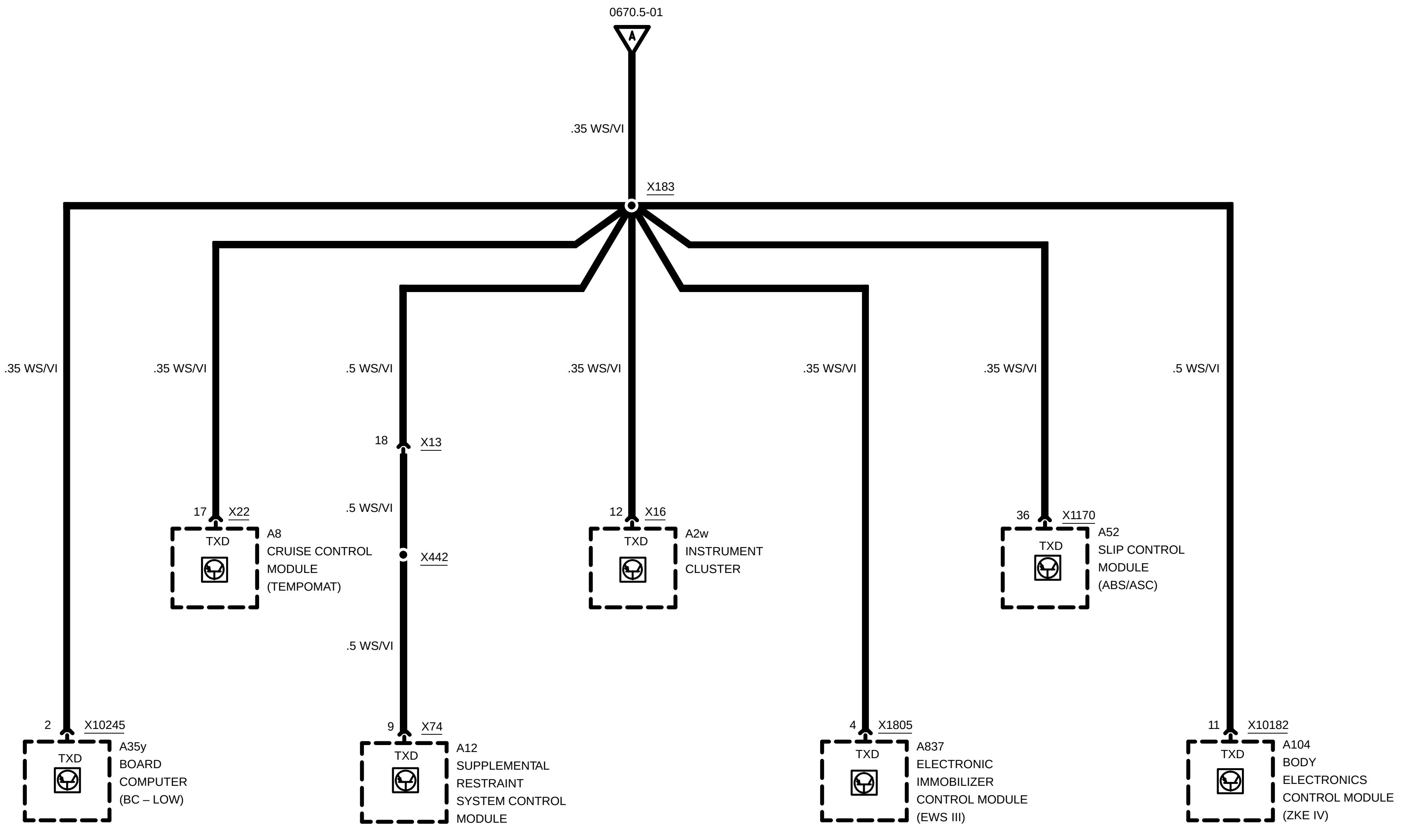
DATA LINK

TXD, DATA LINK CONNECTOR, PINS 17 AND 20



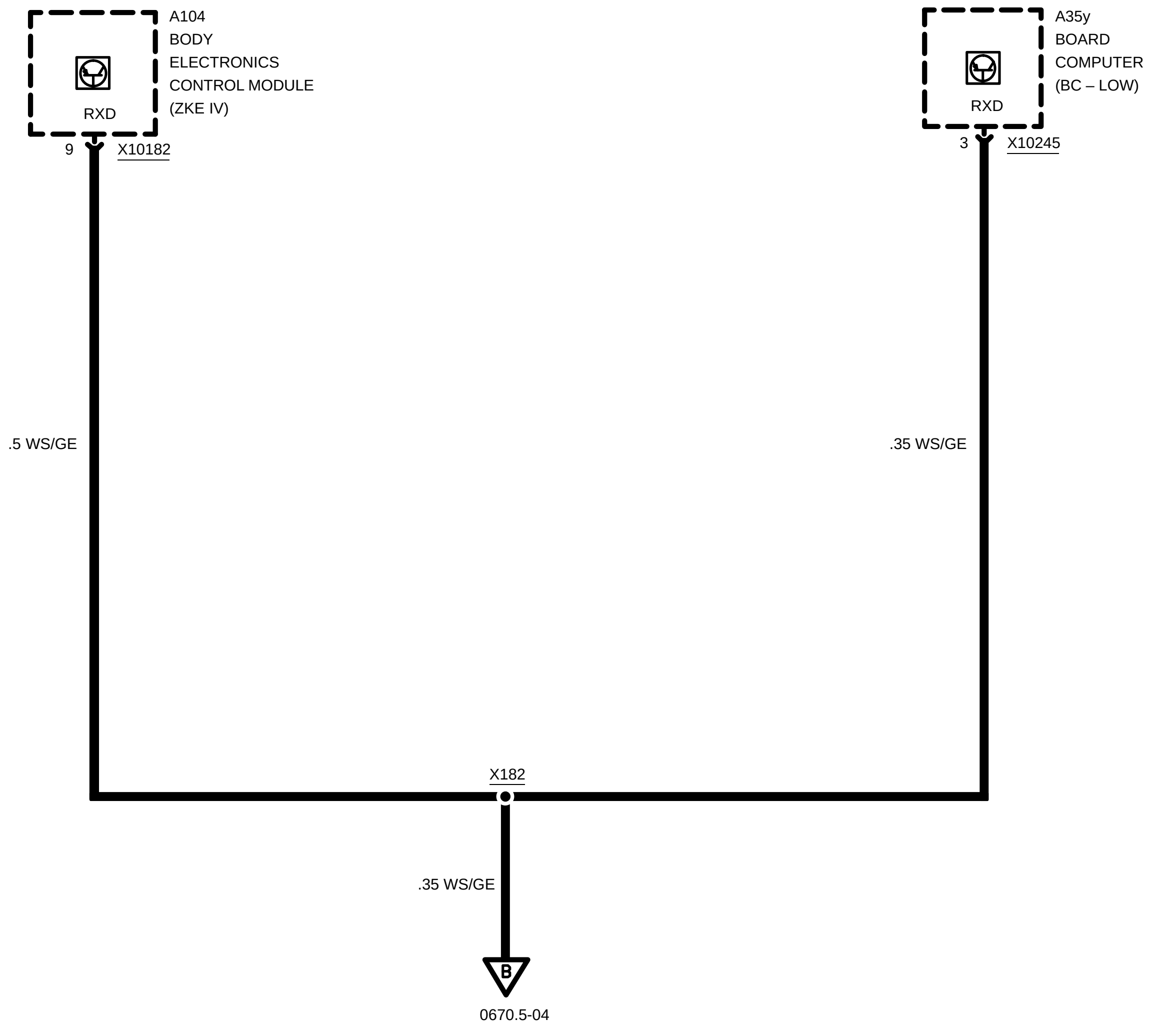
DATA LINK

TXD



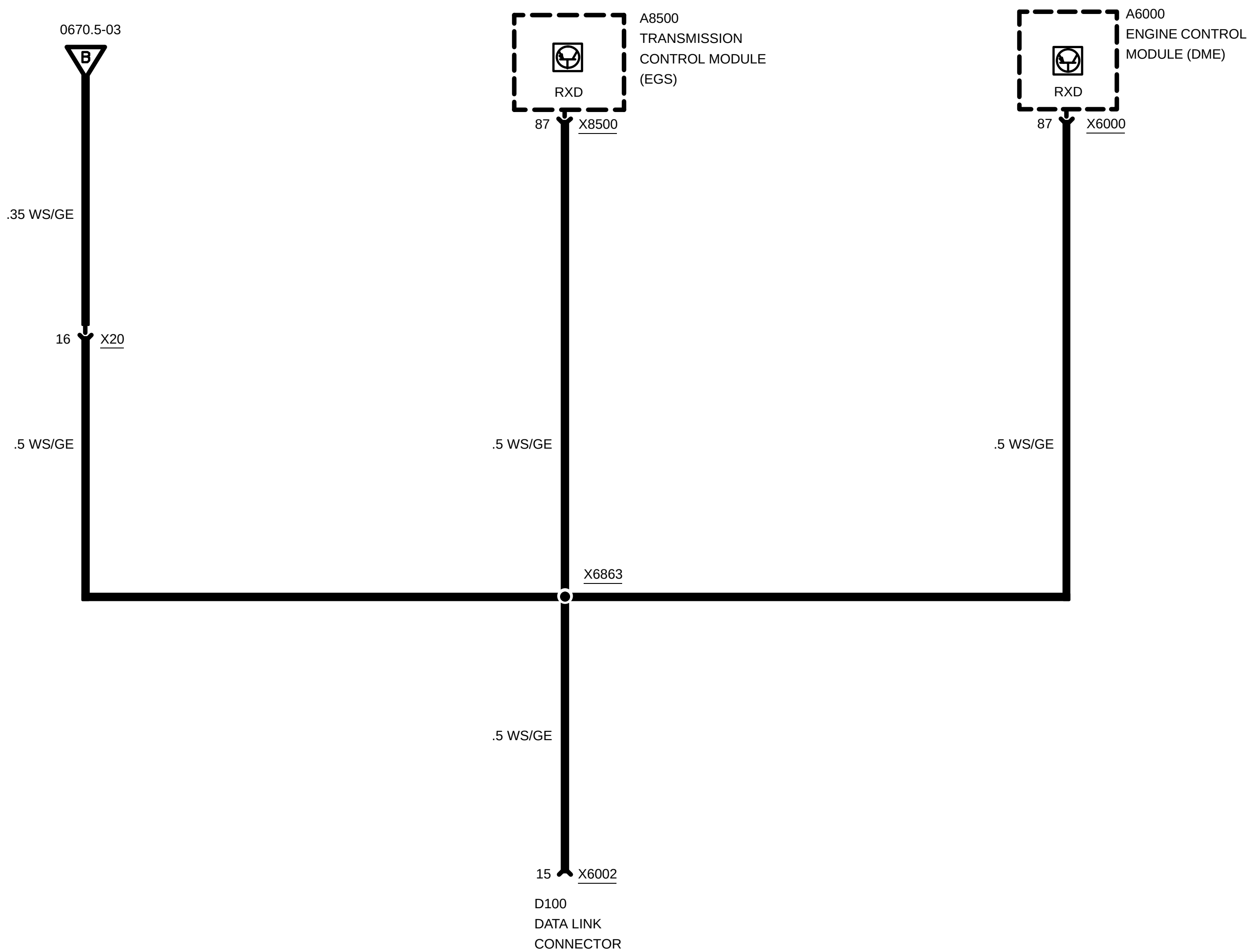
DATA LINK

RXD



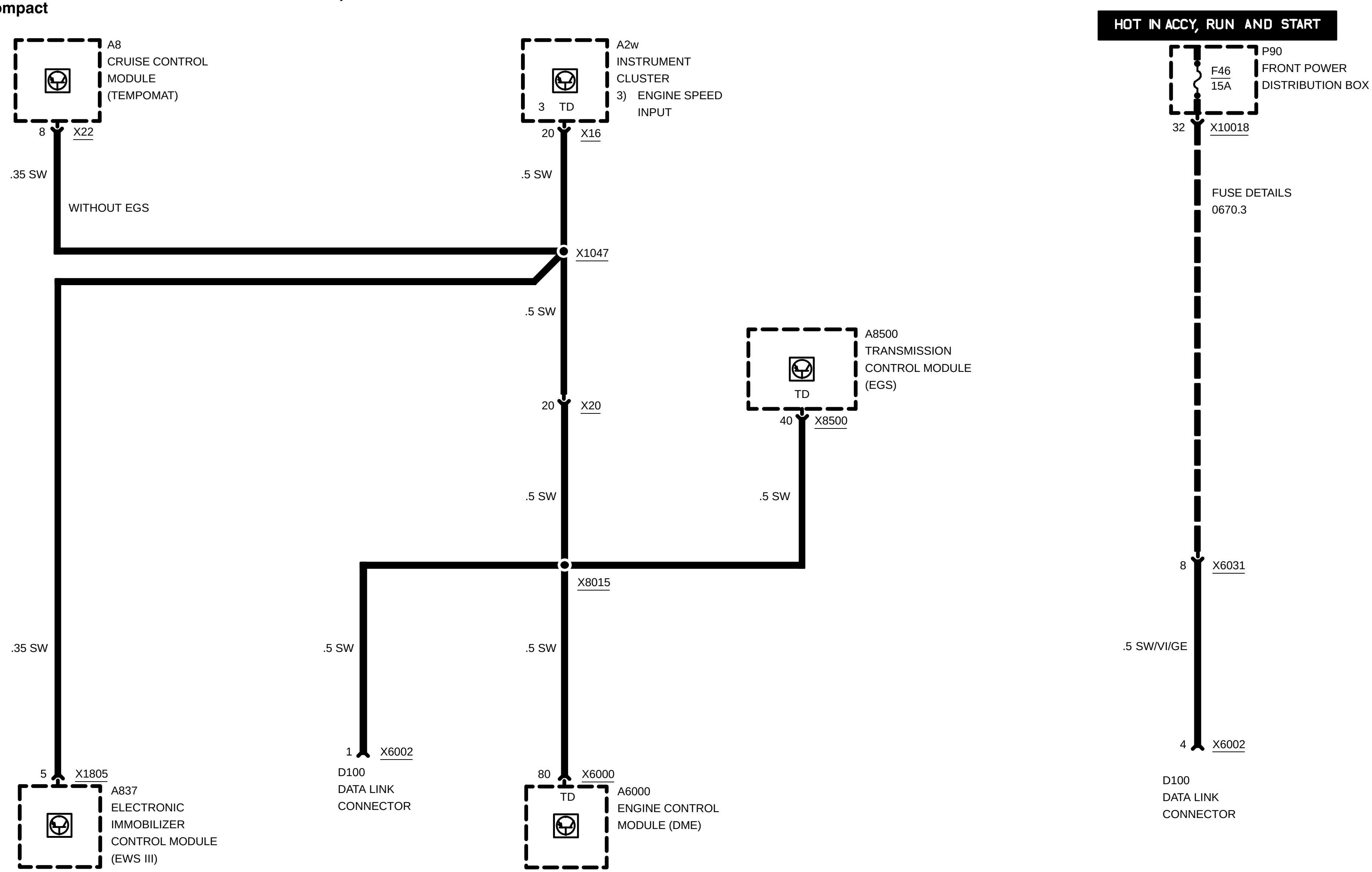
DATA LINK

RXD, DATA LINK CONNECTOR, PIN 15



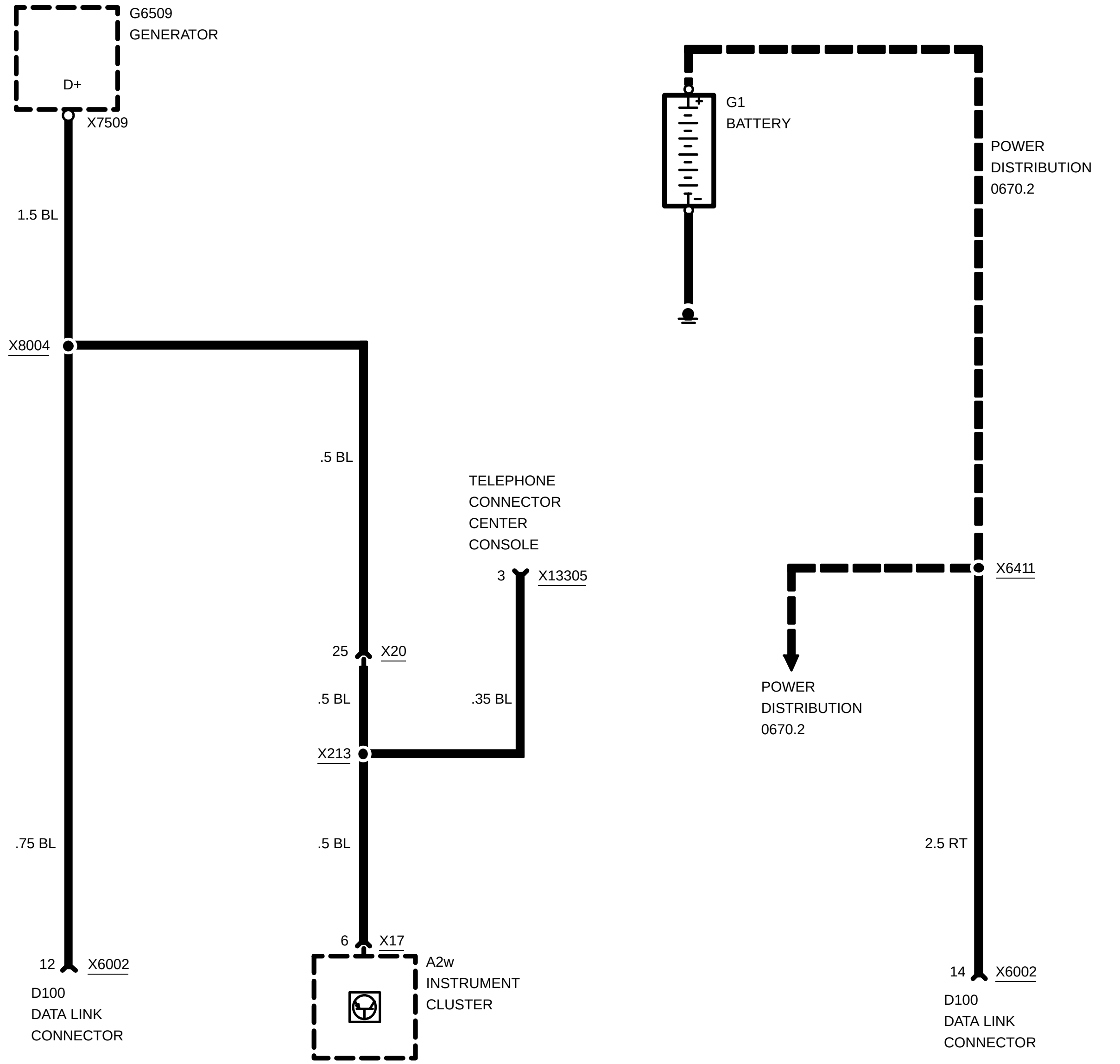
DATA LINK

DATA LINK CONNECTOR, PINS 1 AND 4



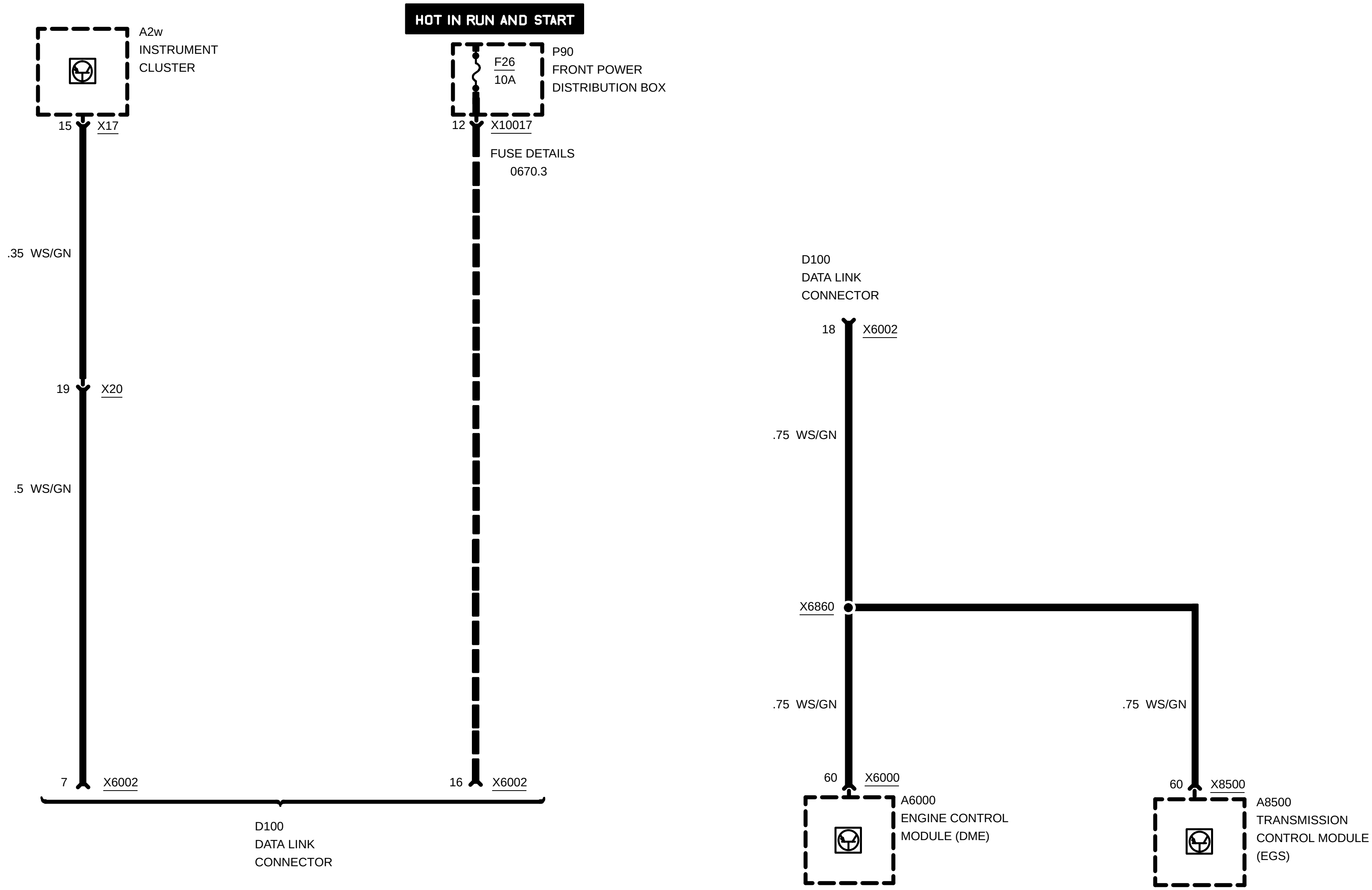
DATA LINK

DATA LINK CONNECTOR, PINS 12 AND 14



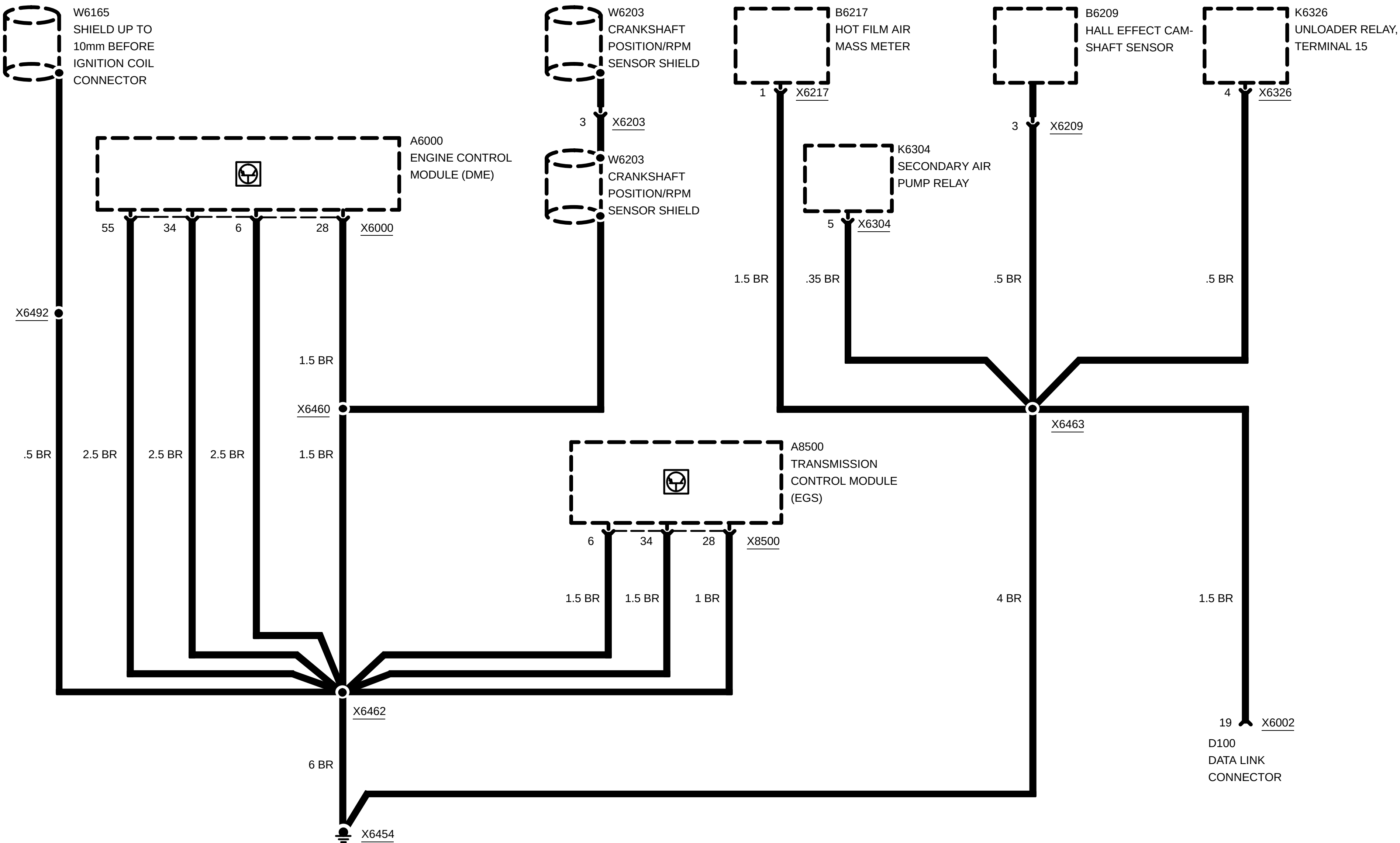
DATA LINK

DATA LINK CONNECTOR, PINS 7, 16, AND 18



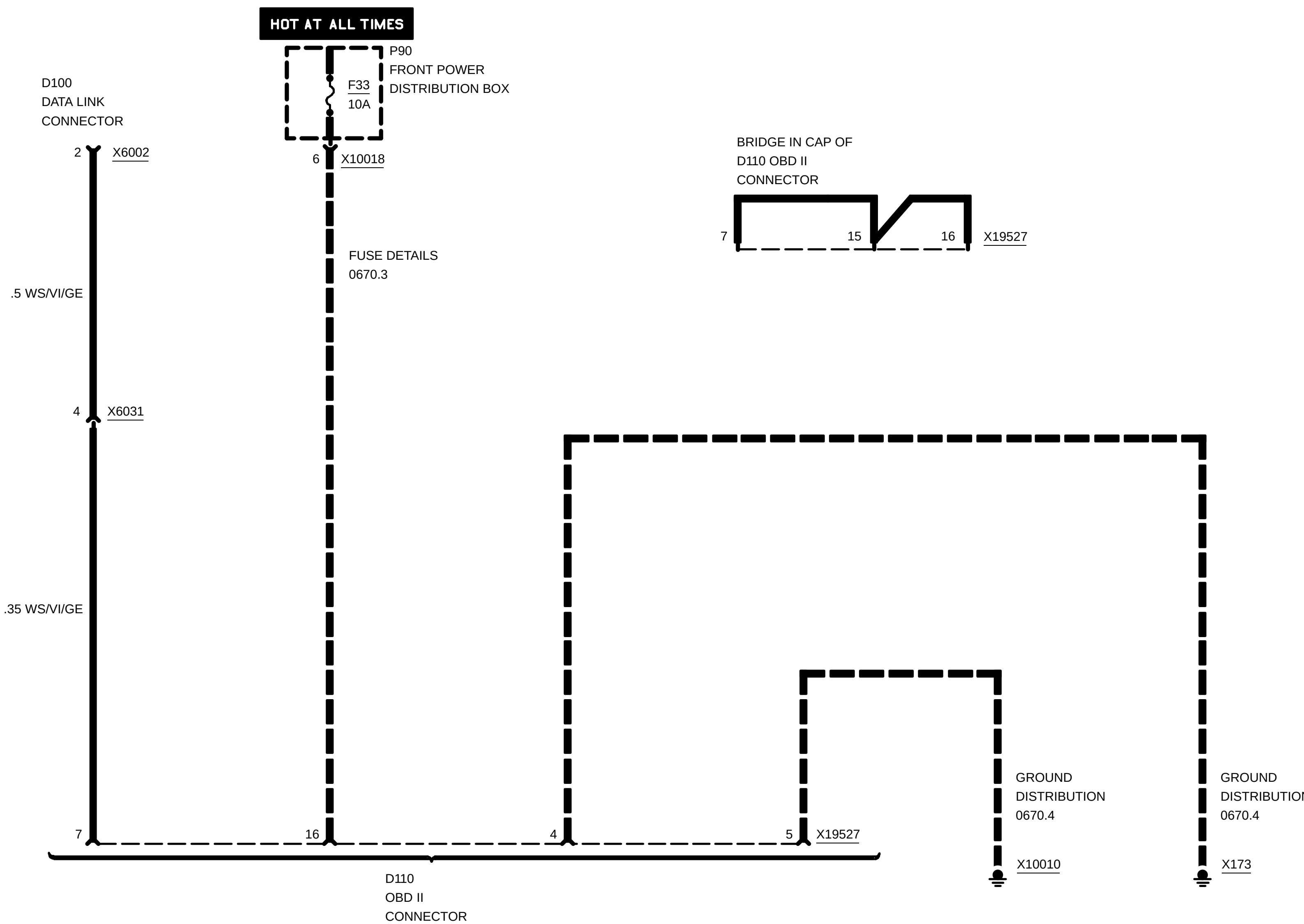
DATA LINK

DATA LINK CONNECTOR, PIN 19



DATA LINK

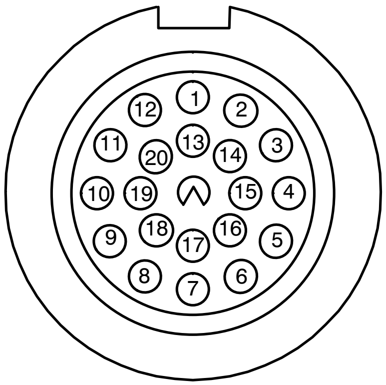
DATA LINK CONNECTOR, PIN 2 AND OBD II CONNECTOR



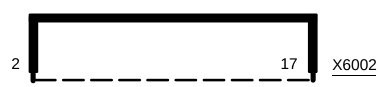
BMW 3 compact

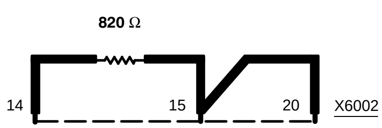
DATA LINK

DATA LINK CONNECTOR (X6002)



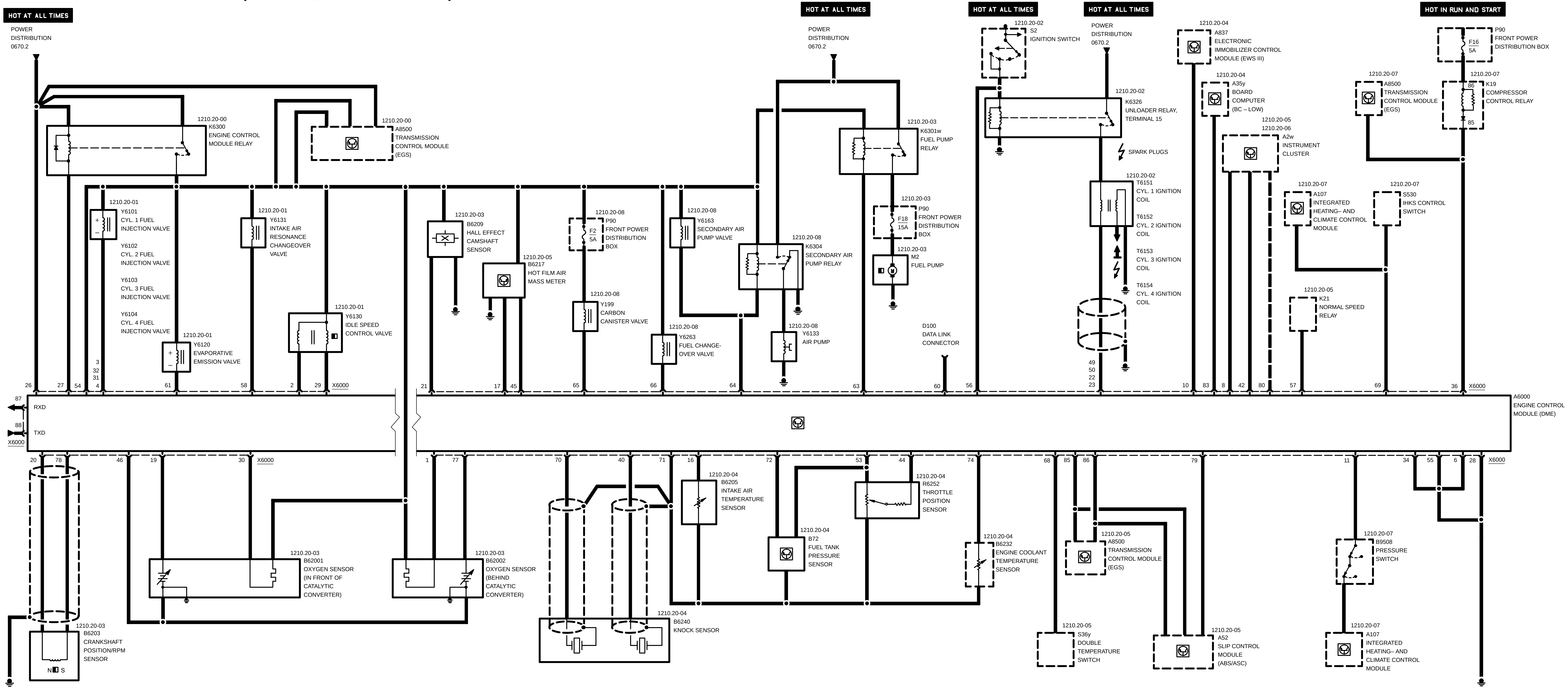
BRIDGES IN CAP OF D100 DATA LINK CONNECTOR





PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD	DIAGNOSTIC DATA LINK	WS/VI
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	WS/GN
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Oxygen sensor heating (–)	Oxygen sensor (behind catalytic converter)
2	A	Activate valve	Idle speed control valve
3	A	Activate valve	Cyl. 1 fuel injection valve
4	A	Activate valve	Cyl. 4 fuel injection valve
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	“Check engine” indicator control	Instrument cluster
9		Not used	
10	E	Drive away protection signal	Electronic immobilizer control module (EWS III)
11	E	Activate A/C	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Intake air temperature	Intake air temperature sensor
17	E	Signal input	Hot film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
20	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
21	E	Camshaft position	Hall effect camshaft sensor
22	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24		Not used	
25		Not used	
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30	A	Oxygen sensor heating (–)	Oxygen sensor (in front of catalytic converter)
31	A	Activate valve	Cyl. 3 fuel injection valve
32	A	Activate valve	Cyl. 2 fuel injection valve
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	A/C compressor cut-out	Compressor control relay
37		Not used	
38		Not used	
39		Not used	
40	E	Cyl. 3-4 knock sensor	Knock sensor
41		Not used	
42	E	TI-measurement signal (fuel consumption)	Instrument cluster
43		Not used	
44	E	Throttle position	Throttle position sensor
45	M	Ground	Hot film air mass meter
46	M	Sensor ground	Oxygen sensors
47		Not used	
48		Not used	
49	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
50	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
51		Not used	
52		Not used	
53	A	Component supply (+)	Throttle position sensor/Fuel tank pressure sensor
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57	A	Activate auxiliary fan	Normal speed relay

E = Input, A = Output, M = Ground

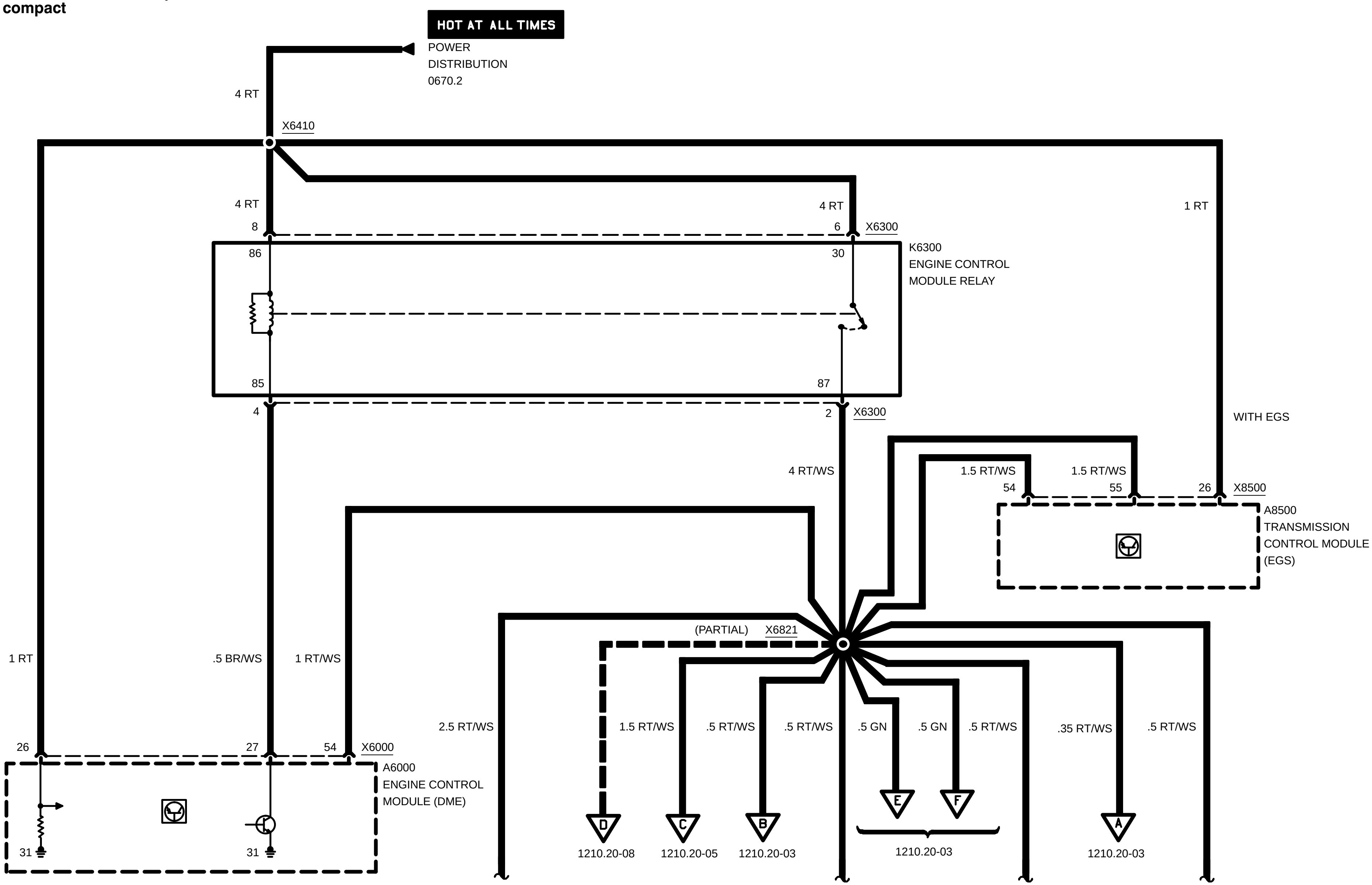
Pin Assignments

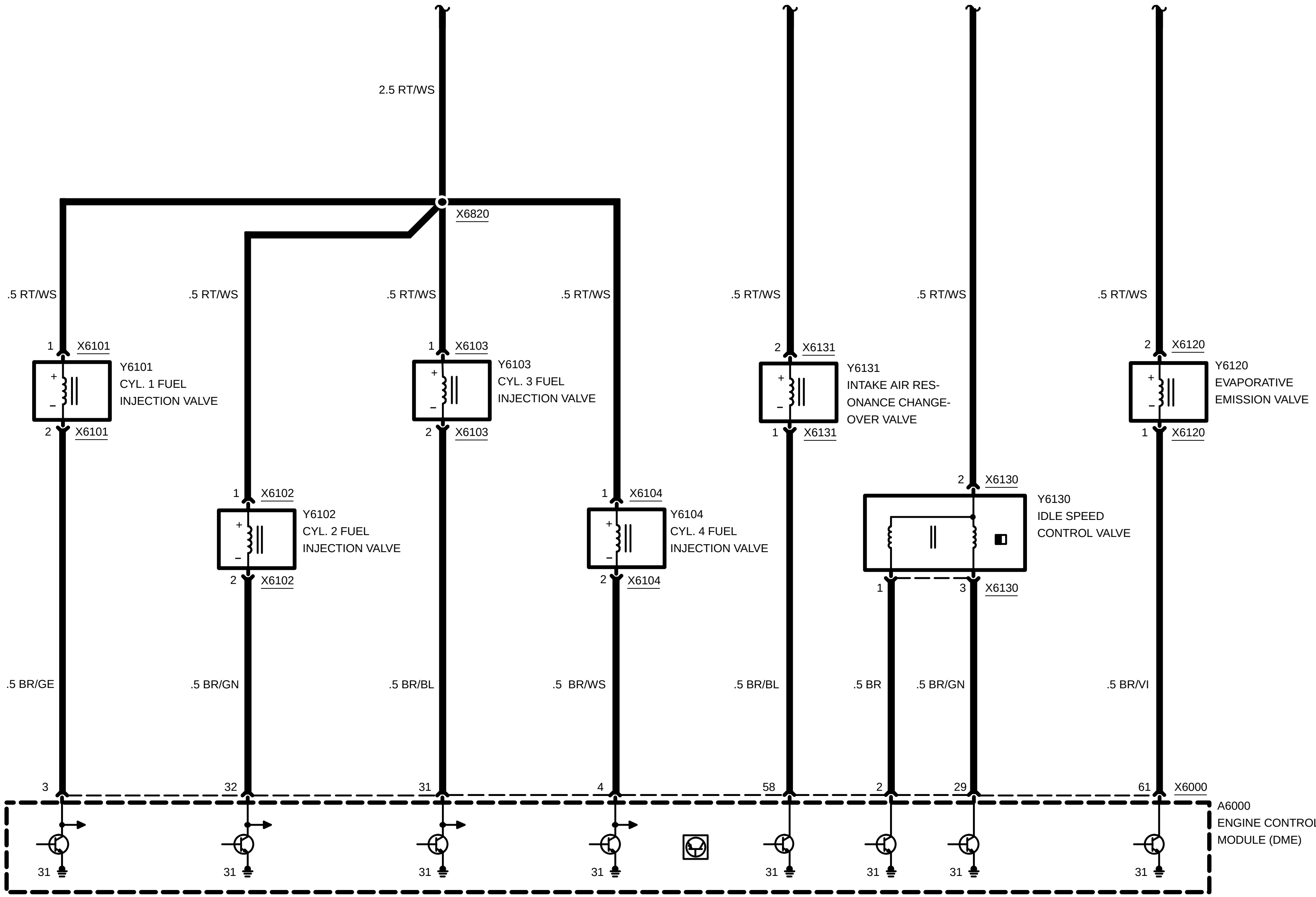
Pin	Type	Description/Function	Connection
58	A	Activate valve	Intake air resonance changeover valve
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Activate valve	Evaporation emission valve
62		Not used	
63	A	Activate relay	Fuel pump relay
64	A	Activate relay/valve	Secondary air pump relay/Secondary air pump valve
65	A	Activate valve	Carbon canister valve
66	A	Activate valve	Fuel changeover valve
67		Not used	
68	E	Signal above 80°C	Double temperature switch
69	E	A/C-ON-signal	Air conditioning operating unit
70	E	Cyl 1-2 knock sensor	Knock sensor
71	M	Ground for sensors	Temperature-/ knock-/ throttle position-sensors
72	E	Fuel tank pressure signal	Fuel tank pressure sensor
73		Not used	
74	E	Temperature signal	Engine coolant temperature sensor
75		Not used	
76		Not used	
77	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
79	E	Speed signal right rear	ABS/ASC control module
80	E	Crankshaft RPM speed signal TD	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	On-board computer
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control module
86	E/A	CAN-HIGH	EGS/ASC control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

POWER, FUEL INJECTION VALVES

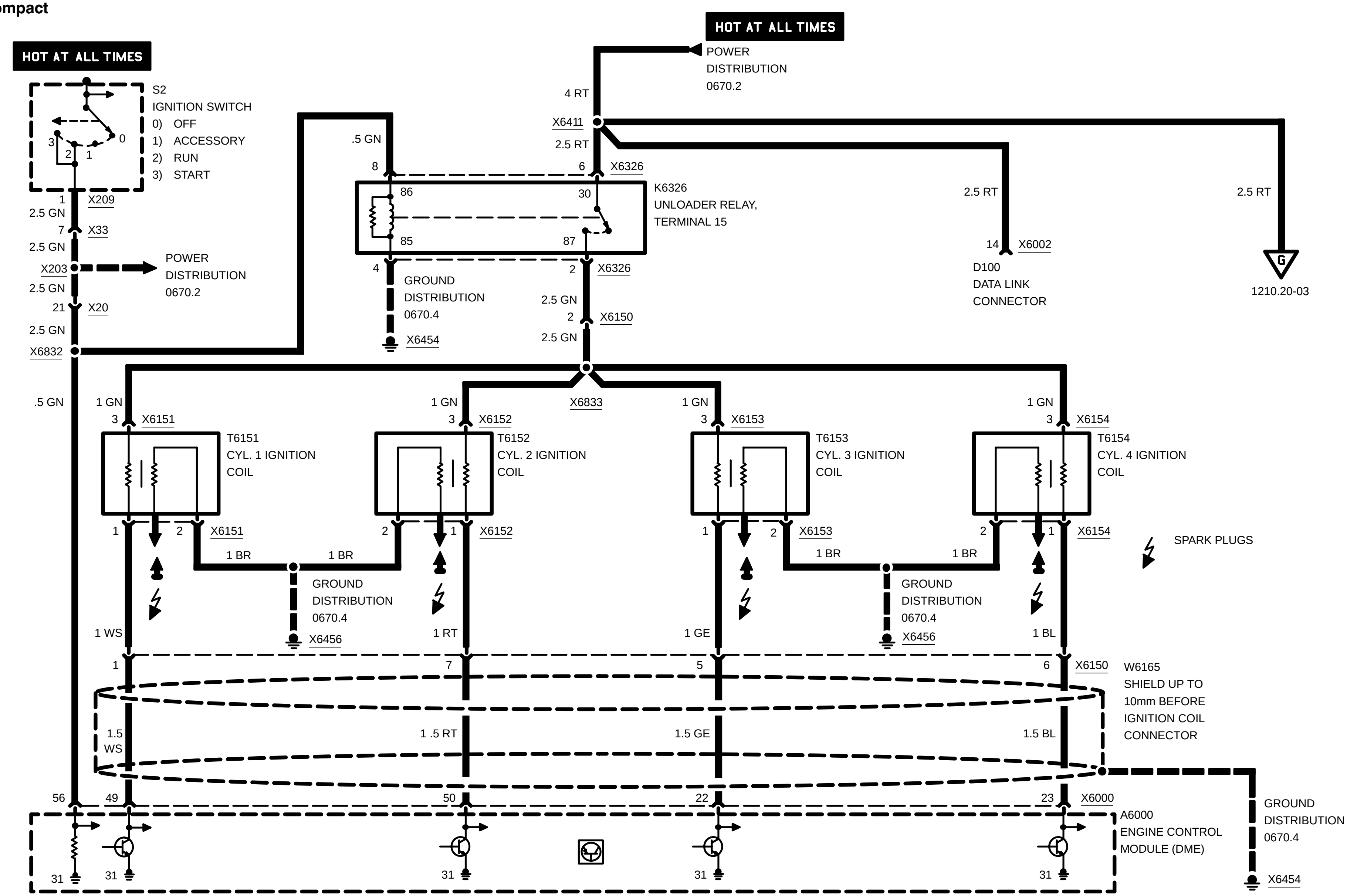



2.5 RT/WS
X6820
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
1 X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2 X6104
2 X6131
Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE
1 X6131
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
3 X6130
2 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
1 X6120
.5 BR/GE
.5 BR/GN
.5 BR/BL
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/GN
.5 BR/VI
3
32
31
4
58
2
29
61
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

compact

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

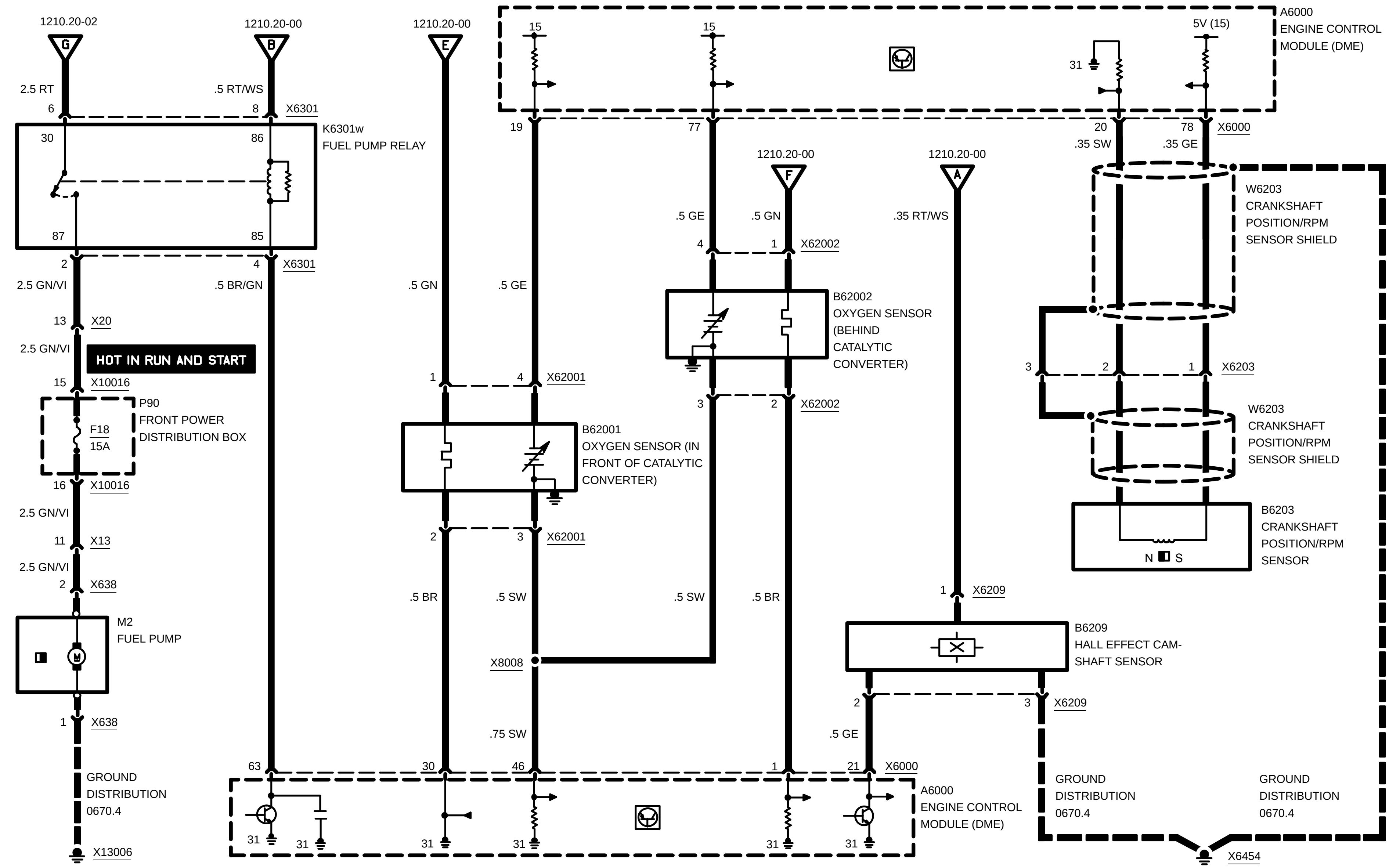
IGNITION COILS



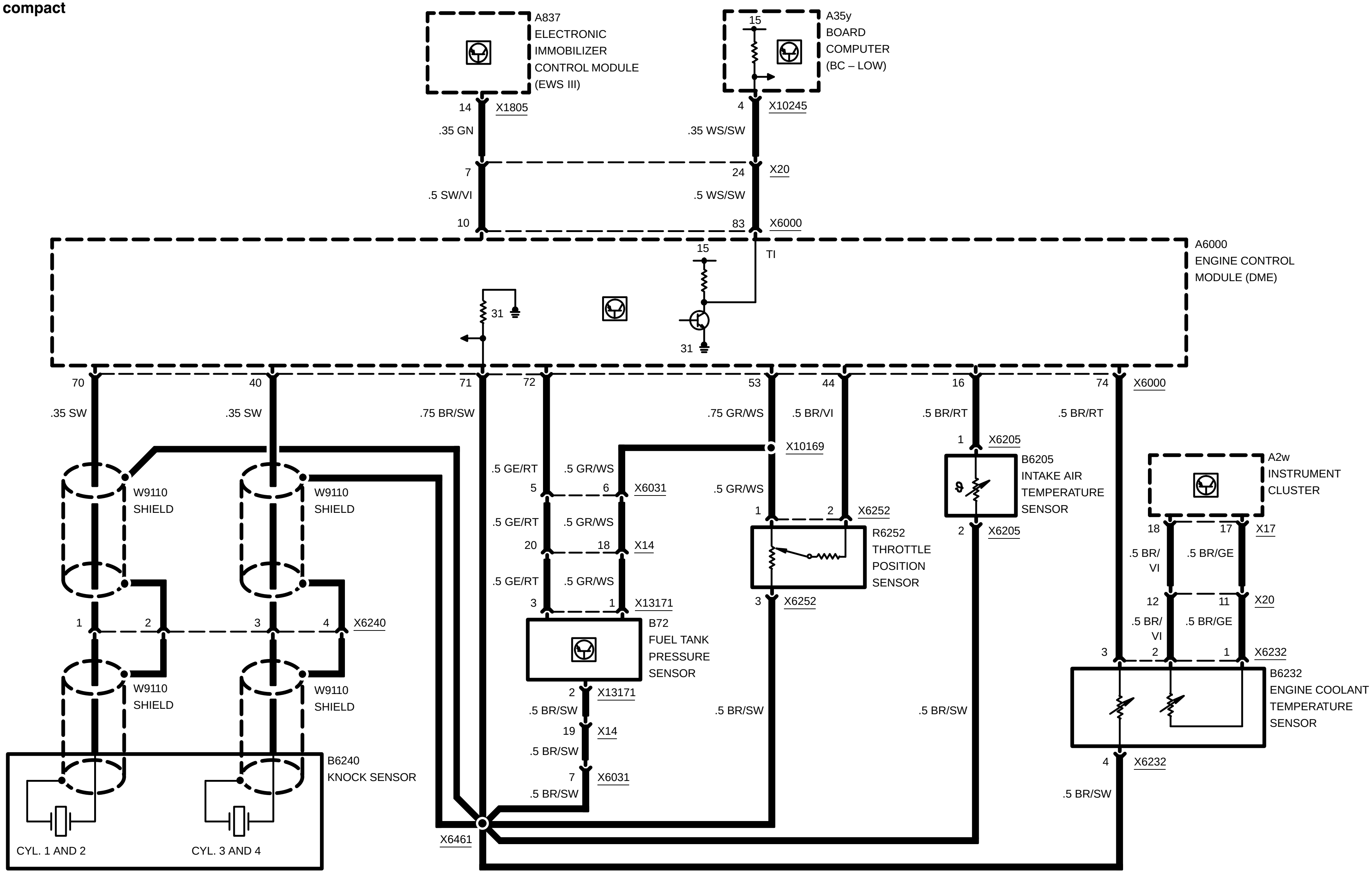
BMW 3 compact

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

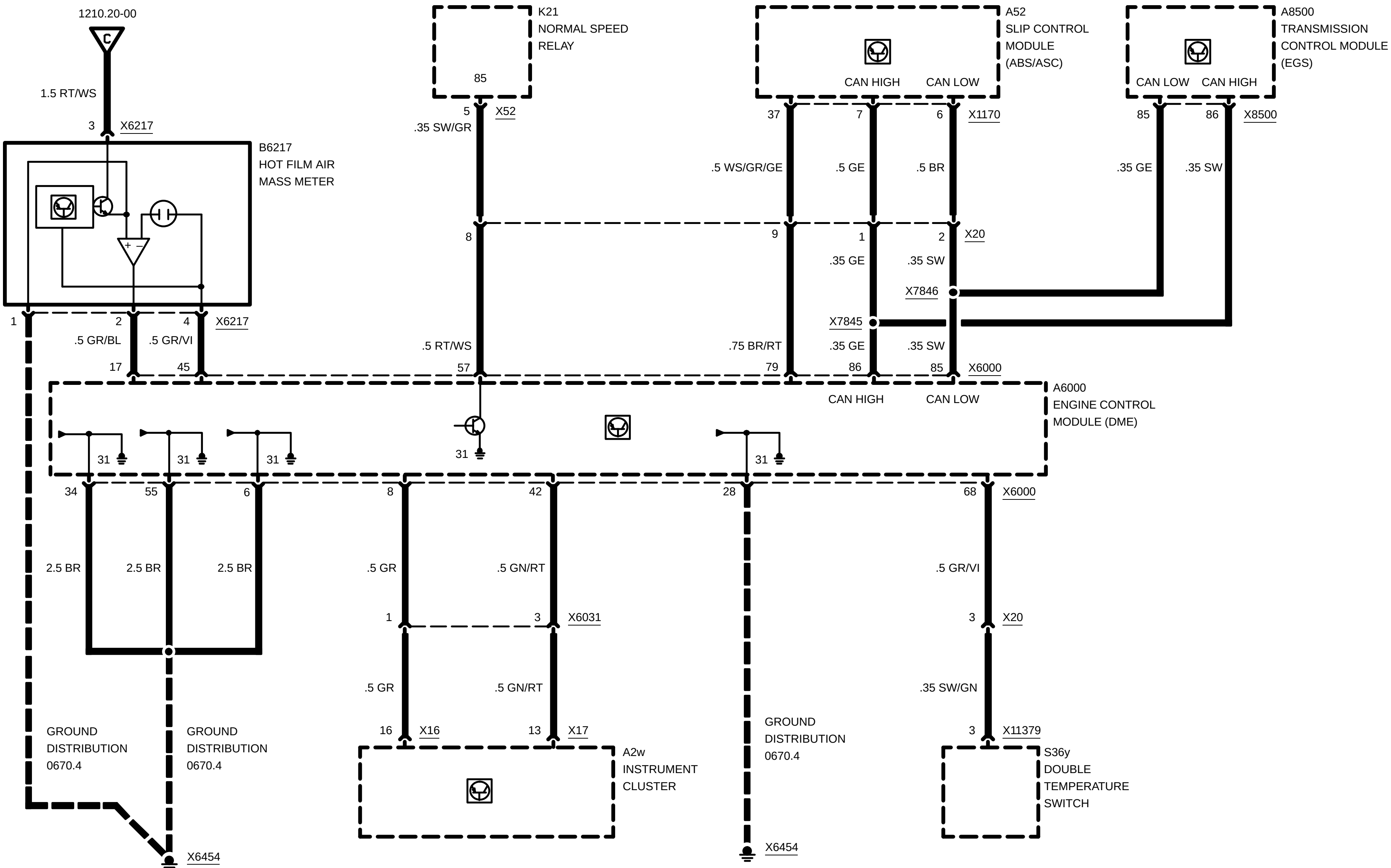


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



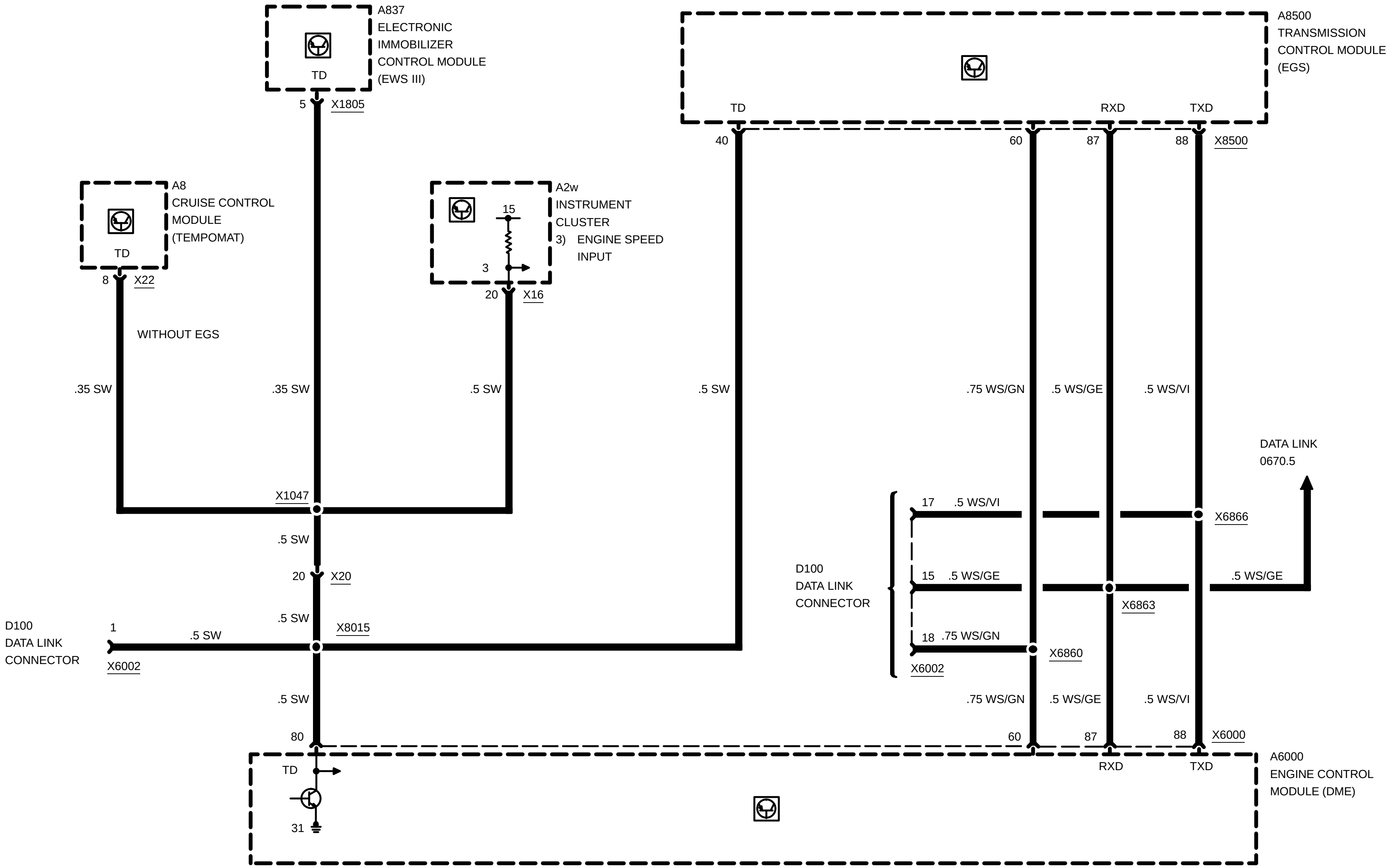
BMW 3 compact

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



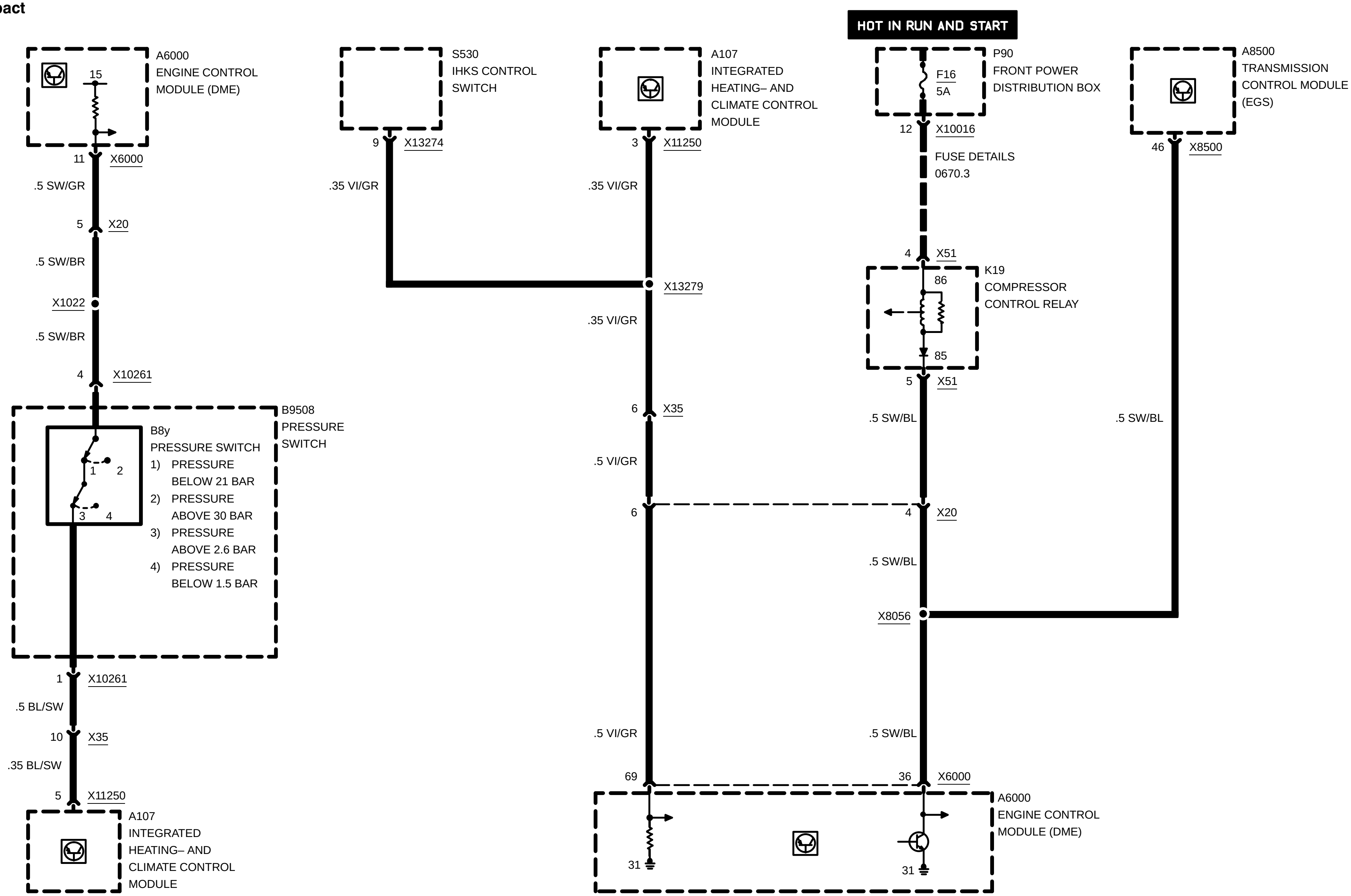
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

DATA LINK

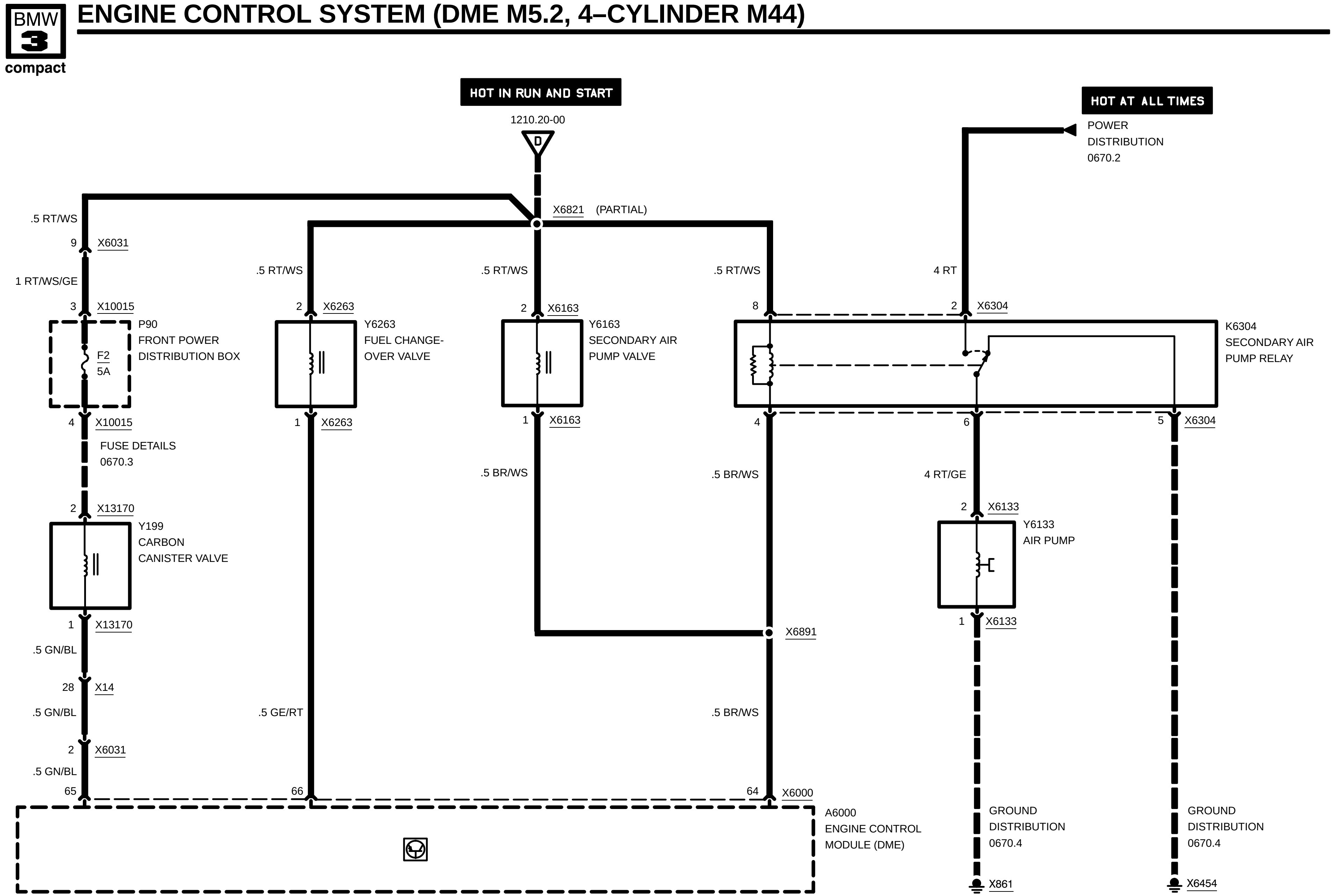


BMW 3 compact

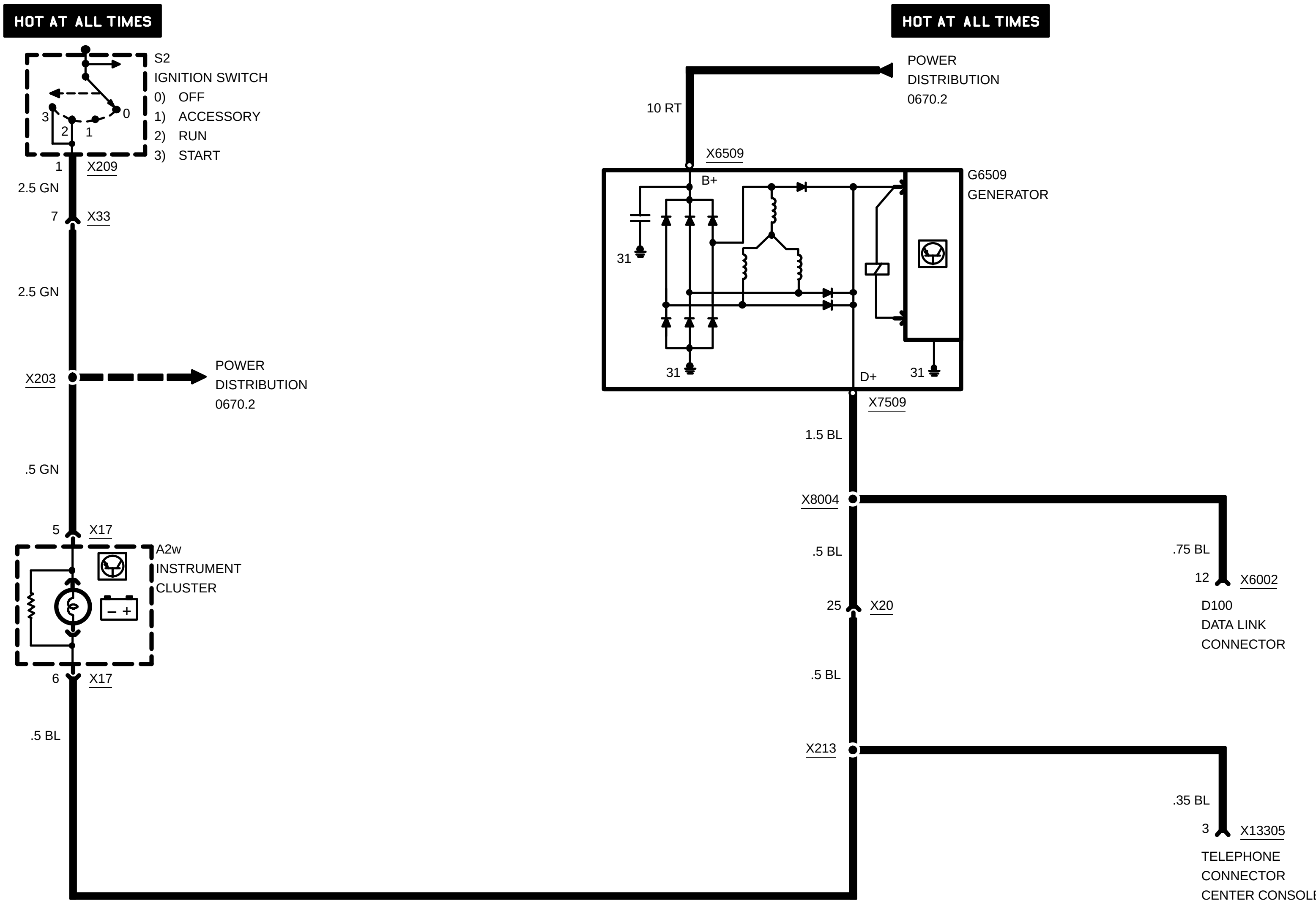
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



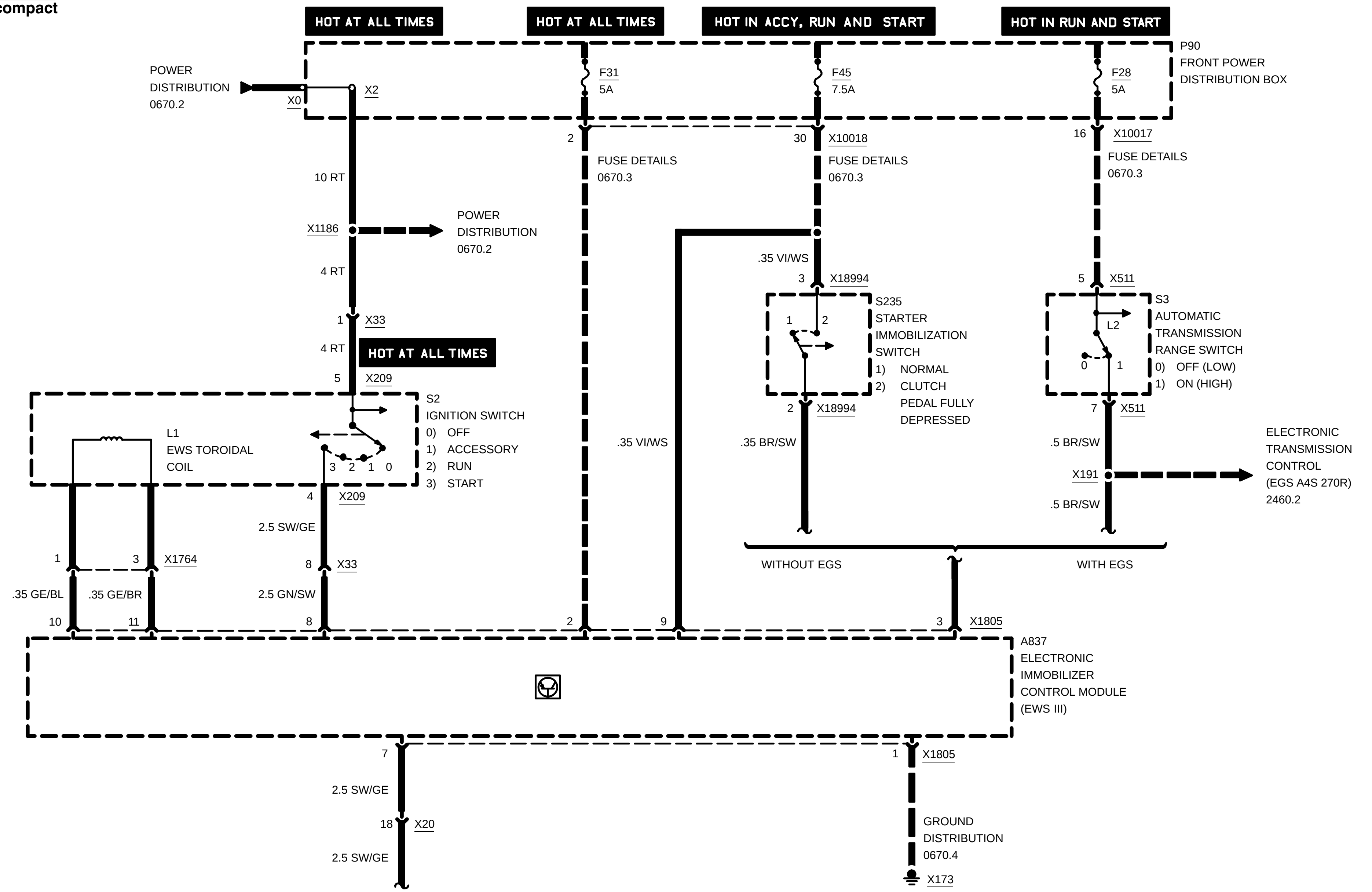
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

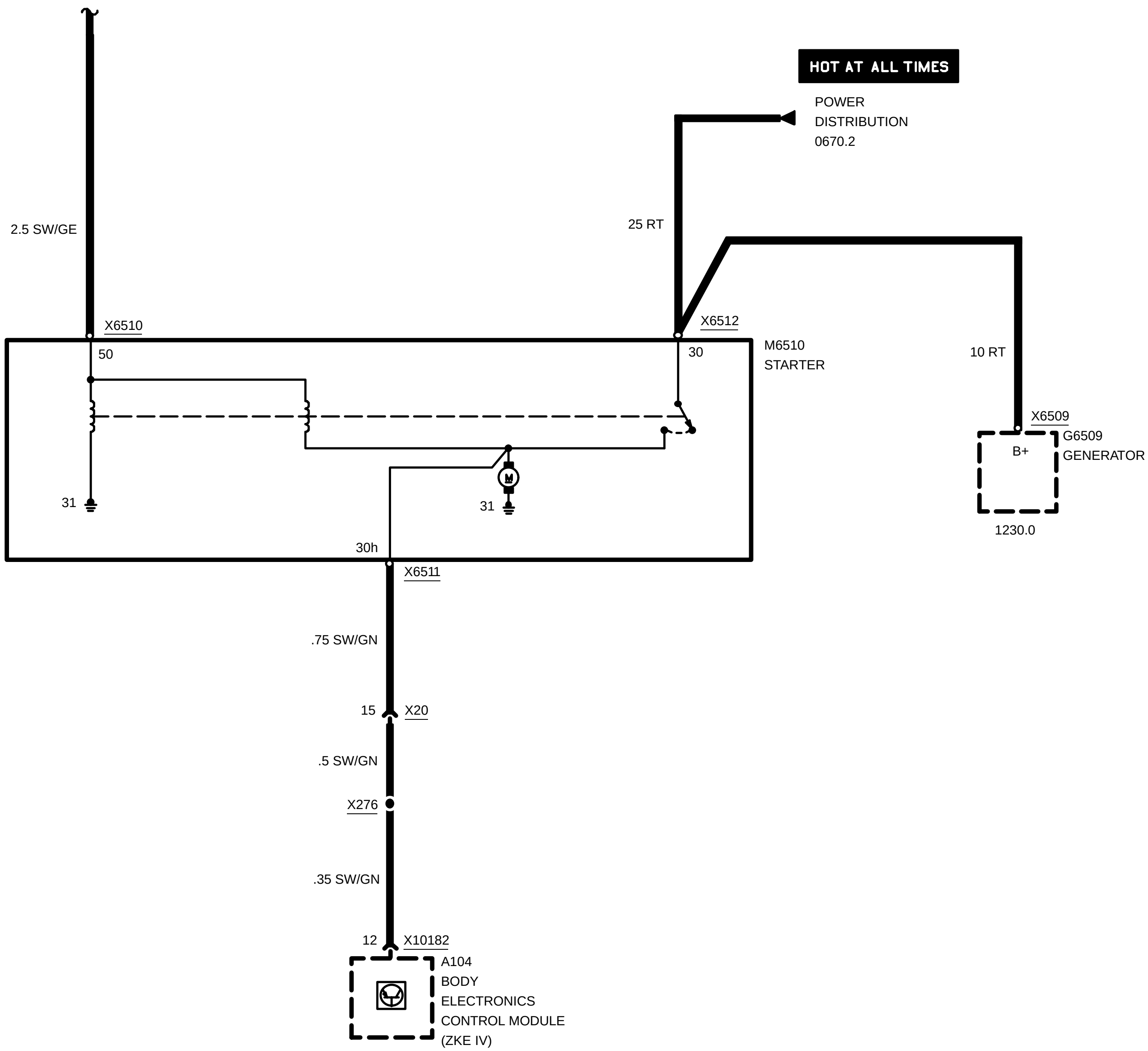


1230.0 CHARGING SYSTEM

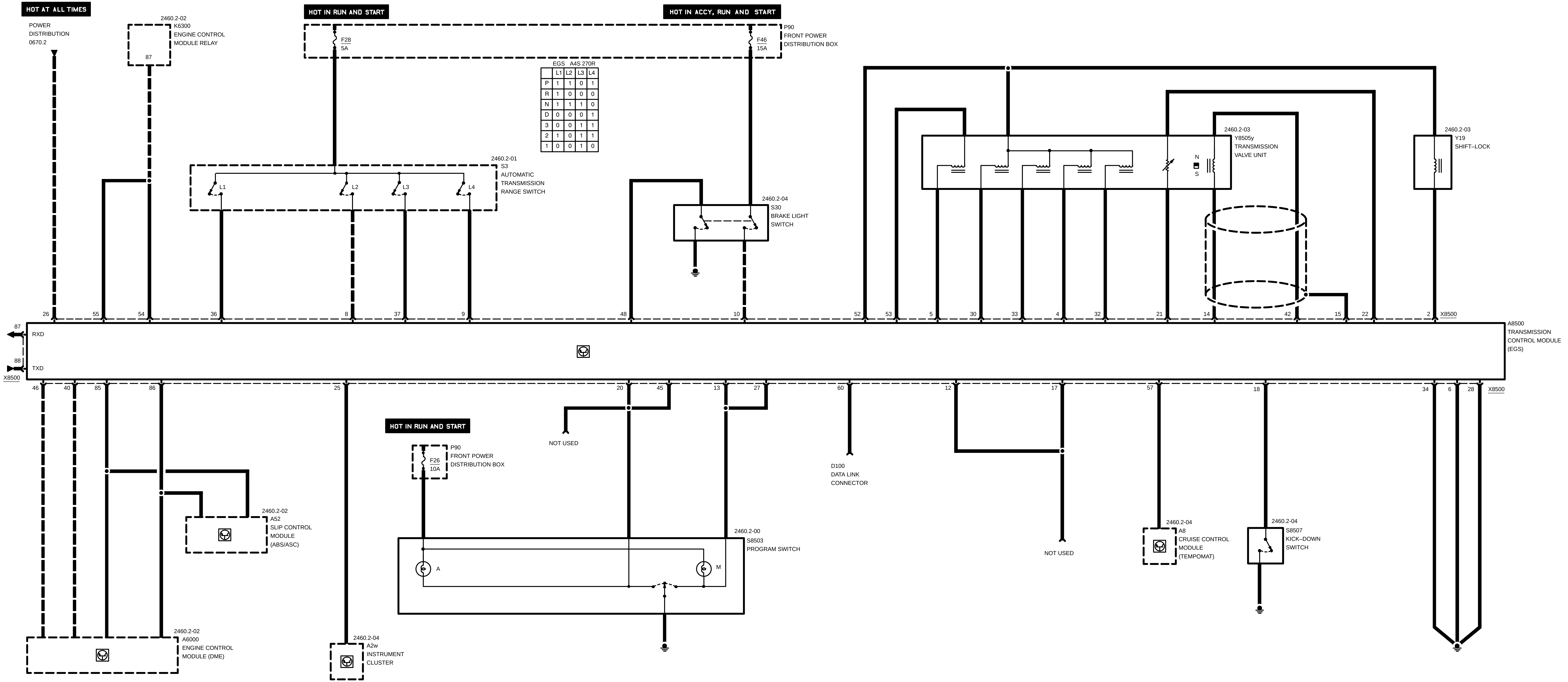


1240.0 START


HOT AT ALL TIMES
HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
POWER
DISTRIBUTION
0670.2
X0
X2
F31
5A
F45
7.5A
F28
5A
2
30
X10018
16
X10017
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
10 RT
X1186
POWER
DISTRIBUTION
0670.2
4 RT
.35 VI/WS
3
X18994
5
X511
1
X33
4 RT
HOT AT ALL TIMES
5
X209
S235
STARTER
IMMOBILIZATION
SWITCH
1) NORMAL
2) CLUTCH
PEDAL FULLY
DEPRESSED
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
0) OFF (LOW)
1) ON (HIGH)
L2
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
L1
EWS TOROIDAL
COIL
3 2 1 0
4
X209
2
X18994
7
X511
.35 VI/WS
.35 BR/SW
.5 BR/SW
X191
.5 BR/SW
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A4S 270R)
2460.2
2.5 SW/GE
1
3
X1764
8
X33
WITHOUT EGS
WITH EGS
.35 GE/BL
.35 GE/BR
2.5 GN/SW
10
11
8
2
9
3
X1805
A837
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS III)
7
1
X1805
2.5 SW/GE
18
X20
2.5 SW/GE
GROUND
DISTRIBUTION
0670.4
X173


HOT AT ALL TIMES
POWER
DISTRIBUTION
0670.2
2.5 SW/GE
25 RT
X6510
X6512
50
30
M6510
STARTER
10 RT
X6509
G6509
GENERATOR
B+
1230.0
31
31
30h
X6511
.75 SW/GN
15
X20
.5 SW/GN
X276
.35 SW/GN
12
X10182
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)

2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)



EGS A4S 270R

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

Pin Assignments

X8500

Pin	Type	Description/Function	Connection
89		Not used	
90	A	Shift-lock solenoid control	Shift-lock
91		Not used	
92	A	Solenoid valve band control (–)	Transmission valve unit
93	A	Hydraulic pressure regulator control (–)	Transmission valve unit
94	M	Ground	Ground point
95		Not used	
96	E	Gear range signal L2	Automatic transmission range switch
97	E	Gear range signal L4	Automatic transmission range switch
98	E	Brake pedal position	Brake light switch
99		Not used	
100	E	Sport mode signal	Not used
101	E	Manual mode signal	Program switch
102	E	Output speed (–)	Transmission valve unit
103	M	Ground for shield	Shield for speed sensor
104		Not used	
105	E	S-program indication	Not used
106	E	Kick-down signal	Kick-down switch
107		Not used	
108	E	Automatic mode signal	Program switch
109	E	Oil temperature signal (–)	Transmission valve unit
110	E	Oil temperature signal (+)	Transmission valve unit
111		Not used	
112		Not used	
113	A	Fault indicator signal	Instrument cluster
114	E	Battery voltage	B+ junction point
115	E	M-program indication	Program switch
116	M	Ground	Ground point
117		Not used	
118	A	Solenoid valve 1 control (–)	Transmission valve unit

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
119		Not used	
120	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
121	A	Solenoid valve 2 control (–)	Transmission valve unit
122	M	Ground	Ground point
123		Not used	
124	E	Gear range signal L1	Automatic transmission range switch
125	E	Gear range signal L3	Automatic transmission range switch
126		Not used	
127		Not used	
128	E	RPM speed signal TD	Engine control module
129		Not used	
130	E	Output speed (+)	Transmission valve unit
131		Not used	
132		Not used	
133	E	A-program indication	Program switch
134	E	A/C compressor-ON-signal	Engine control module
135		Not used	
136	E	Brake switch test signal	Brake light switch
137		Not used	
138		Not used	
139		Not used	
140	A	Voltage supply	Shift-lock/Transmission valve unit
141	E	Voltage pressure regulator	Transmission valve unit
142	E	Voltage supply, terminal 87	Engine control module relay
143	E	Voltage supply, terminal 87	Engine control module relay
144		Not used	
145	E	Cruise control signal	Cruise control module
146		Not used	
147		Not used	
148	E	Programming voltage	Data link connector
149		Not used	

E = Input, A = Output, M = Ground

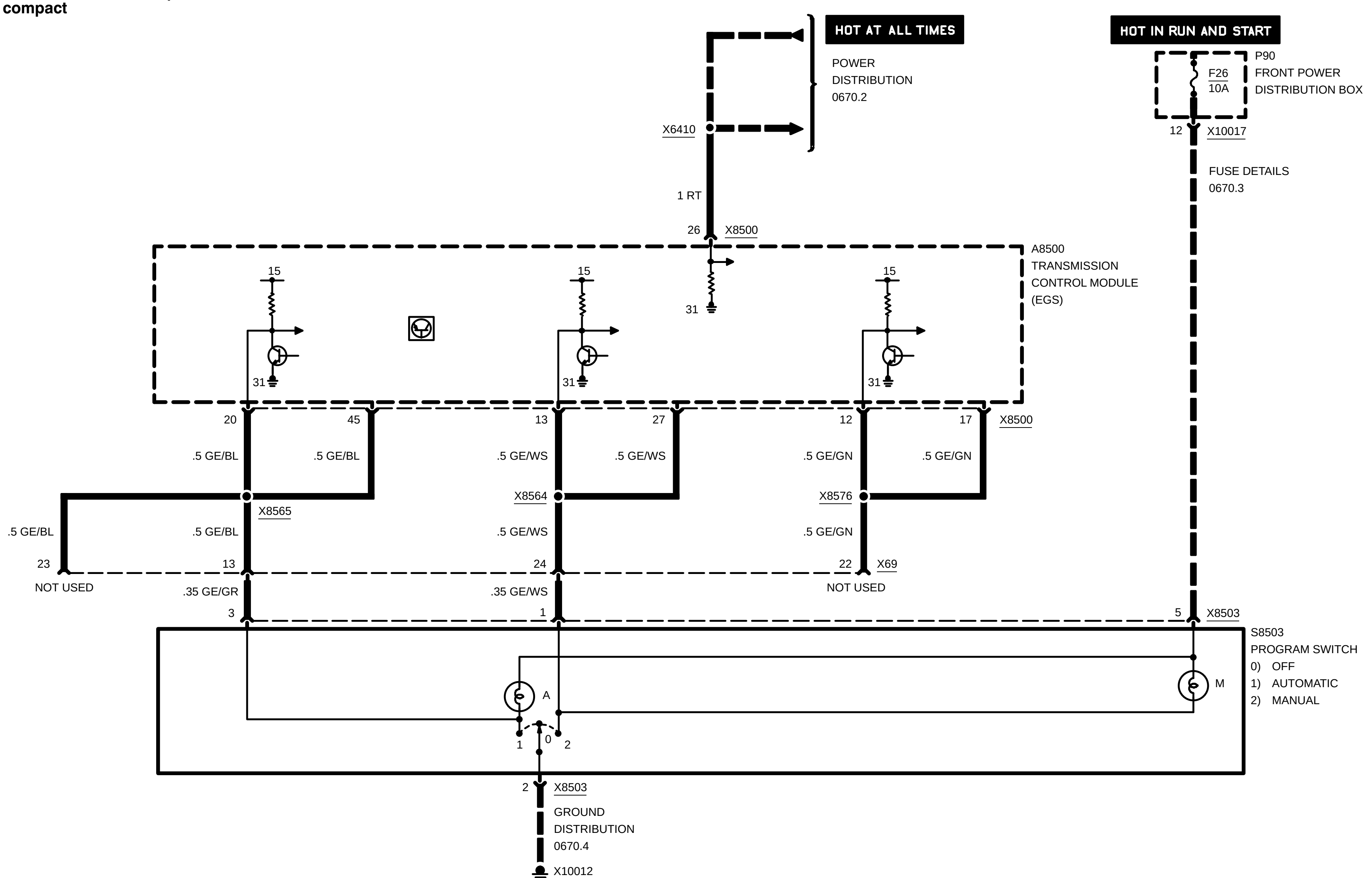
Pin Assignments

Pin	Type	Description/Function	Connection
150		Not used	
151		Not used	
152		Not used	
153		Not used	
154		Not used	
155		Not used	
156		Not used	
157		Not used	
158		Not used	
159		Not used	
160		Not used	
161		Not used	
162		Not used	
163		Not used	
164		Not used	
165		Not used	
166		Not used	
167		Not used	
168		Not used	
169		Not used	
170		Not used	
171		Not used	
172		Not used	
173	E/A	Can-Low	Engine control module/Slip control module
174	E/A	Can-High	Engine control module/Slip control module
175	A	RxD diagnostic data link	Data link connector
176	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

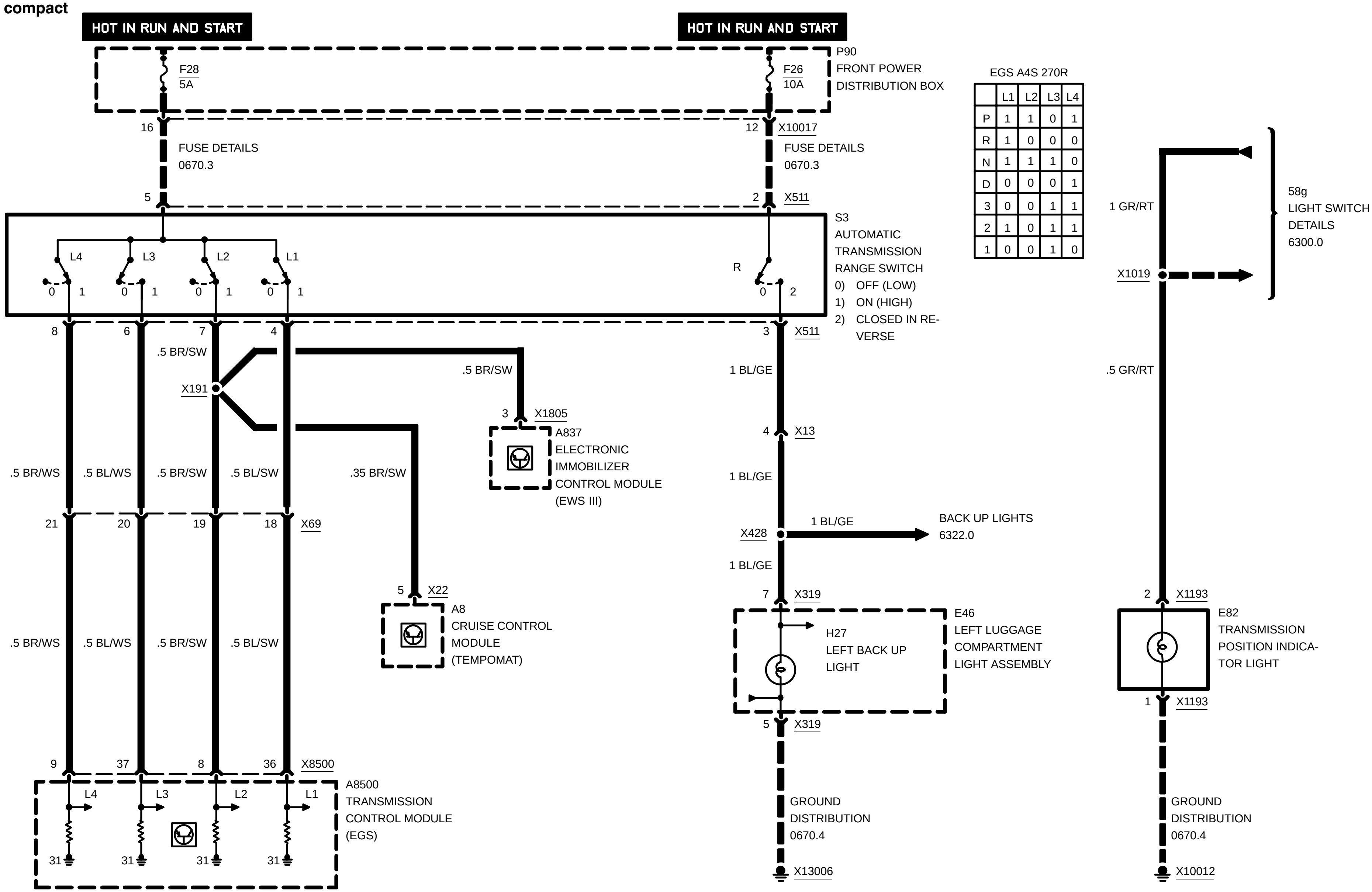
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

POWER, PROGRAM SWITCH



ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

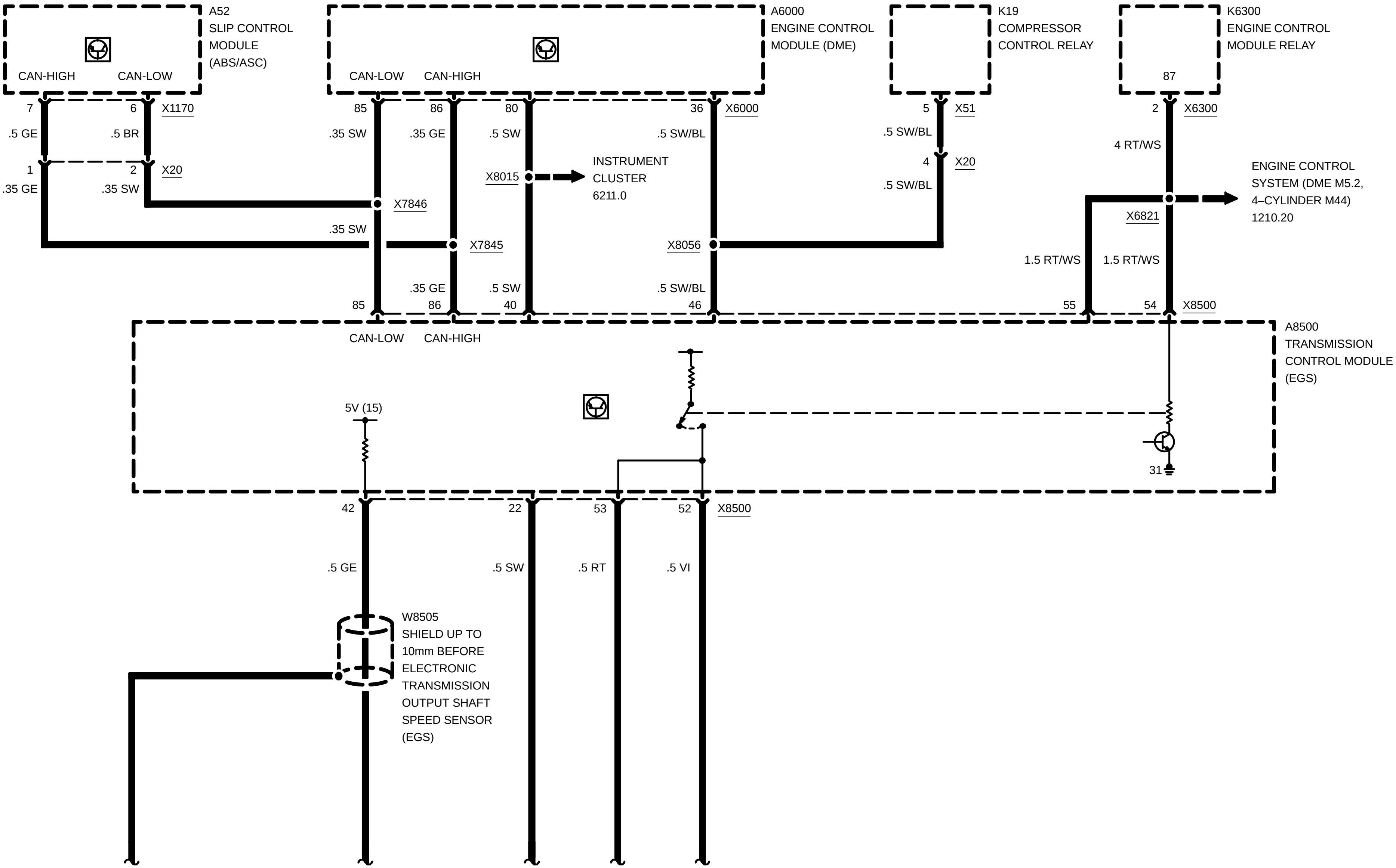
GEAR SELECTOR SWITCH

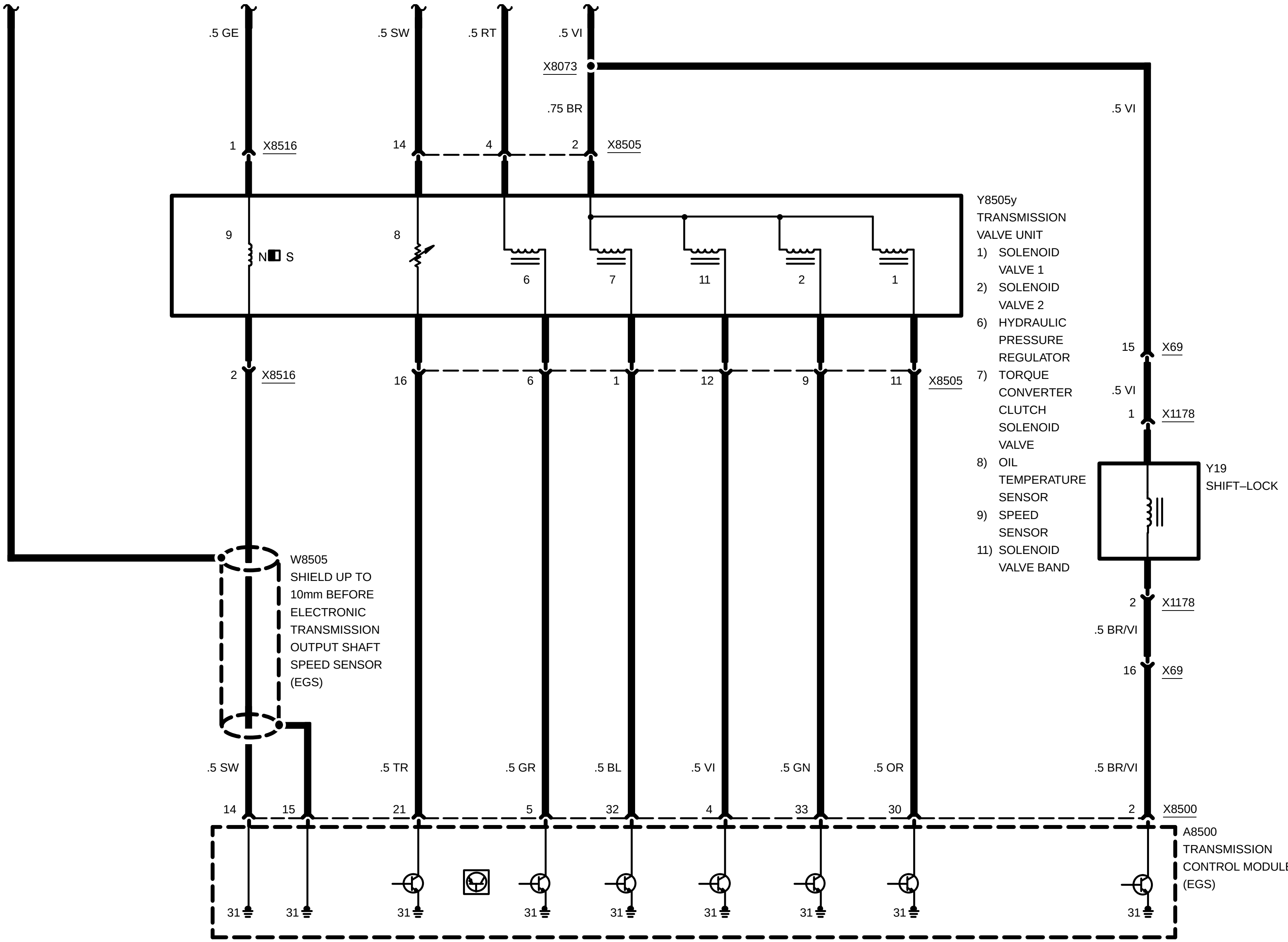


EGS A4S 270R

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

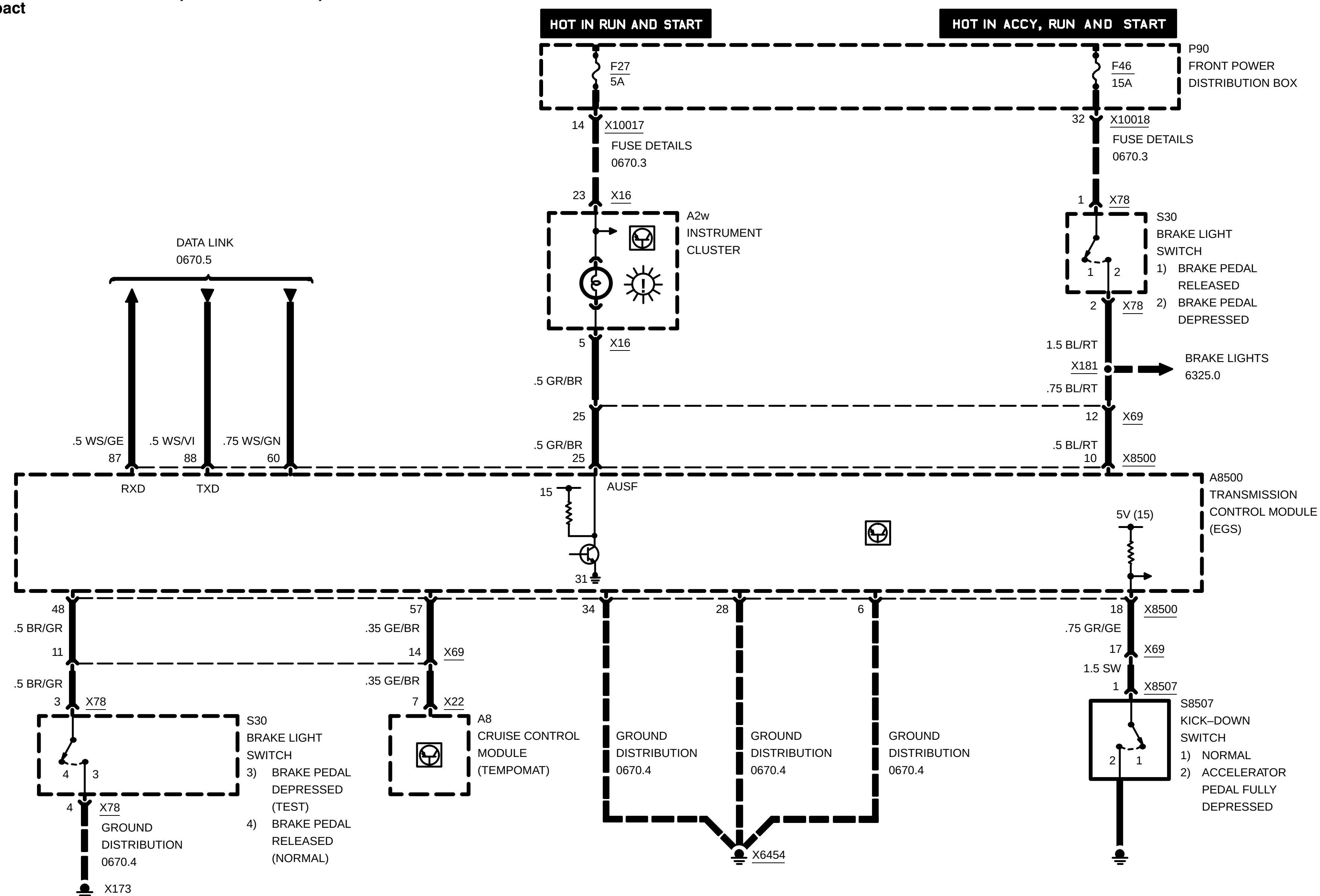
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

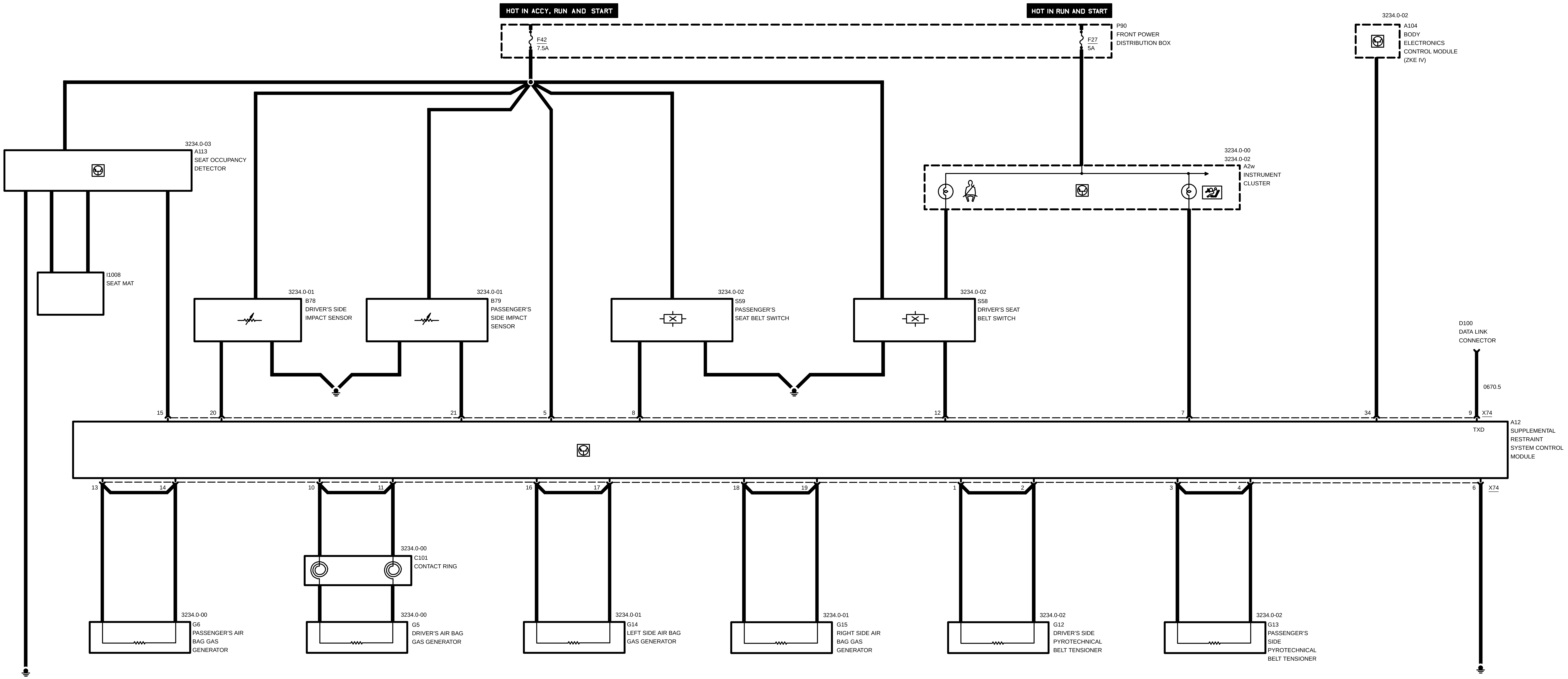



.5 GE
.5 SW
.5 RT
.5 VI
X8073
.75 BR
.5 VI
1 X8516
14
4
2 X8505
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
11) SOLENOID VALVE BAND
9
N S
8
6
7
11
2
1
2 X8516
16
6
1
12
9
11 X8505
15 X69
.5 VI
1 X1178
Y19
SHIFT–LOCK
2 X1178
.5 BR/VI
16 X69
W8505
SHIELD UP TO
10mm BEFORE
ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
.5 SW
.5 TR
.5 GR
.5 BL
.5 VI
.5 GN
.5 OR
.5 BR/VI
14
15
21
5
32
4
33
30
2 X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
31

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH





HOT IN ACCY, RUN AND START
HOT IN RUN AND START
F42
7.5A
F27
5A
P90
FRONT POWER
DISTRIBUTION BOX
3234.0-02
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
3234.0-03
A113
SEAT OCCUPANCY
DETECTOR
3234.0-00
3234.0-02
A2w
INSTRUMENT
CLUSTER
I1008
SEAT MAT
3234.0-01
B78
DRIVER'S SIDE
IMPACT SENSOR
3234.0-01
B79
PASSENGER'S
SIDE IMPACT
SENSOR
3234.0-02
S59
PASSENGER'S
SEAT BELT SWITCH
3234.0-02
S58
DRIVER'S SEAT
BELT SWITCH
D100
DATA LINK
CONNECTOR
0670.5
15
20
21
5
8
12
7
34
9
X74
TXD
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE
13
14
10
11
16
17
18
19
1
2
3
4
6
X74
3234.0-00
C101
CONTACT RING
3234.0-00
G6
PASSENGER'S AIR
BAG GAS
GENERATOR
3234.0-00
G5
DRIVER'S AIR BAG
GAS GENERATOR
3234.0-01
G14
LEFT SIDE AIR BAG
GAS GENERATOR
3234.0-01
G15
RIGHT SIDE AIR
BAG GAS
GENERATOR
3234.0-02
G12
DRIVER'S SIDE
PYROTECHNICAL
BELT TENSIONER
3234.0-02
G13
PASSENGER'S
SIDE
PYROTECHNICAL
BELT TENSIONER

Pin Assignments

X74

Pin	Type	Description/Function	Connection
1	A	Pyrotechnical belt tensioner	Driver’s side pyrotechnical belt tensioner
2	A	Pyrotechnical belt tensioner	Driver’s side pyrotechnical belt tensioner
3	A	Pyrotechnical belt tensioner	Passenger’s side pyrotechnical belt tensioner
4	A	Pyrotechnical belt tensioner	Passenger’s side pyrotechnical belt tensioner
5	E	Power supply	Front power distribution box, fuse 42
6	M	Ground	Ground point
7	A	Air bag warning indicator	Instrument cluster
8	E	Belt switch	Passenger’s seat belt switch
9	E/A	TxD diagnostic data line	Data link connector
10	A	Air bag (+)	Driver’s air bag gas generator
11	A	Air bag (–)	Driver’s air bag gas generator
12	E	Belt switch	Driver’s seat belt switch
13	A	Air bag (+)	Passenger’s air bag gas generator
14	A	Air bag (–)	Passenger’s air bag gas generator
15	E	Seat occupancy detector	Seat occupancy detector
16	A	Gas generator	Gas generator, left side air bag
17	A	Gas generator	Gas generator, left side air bag
18	A	Gas generator	Gas generator, right side air bag
19	A	Gas generator	Gas generator, right side air bag
20	E	Impact sensor	Driver’s side impact sensor
21	E	Impact sensor	Passenger’s side impact sensor
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	
27		Not used	
28		Not used	
29		Not used	

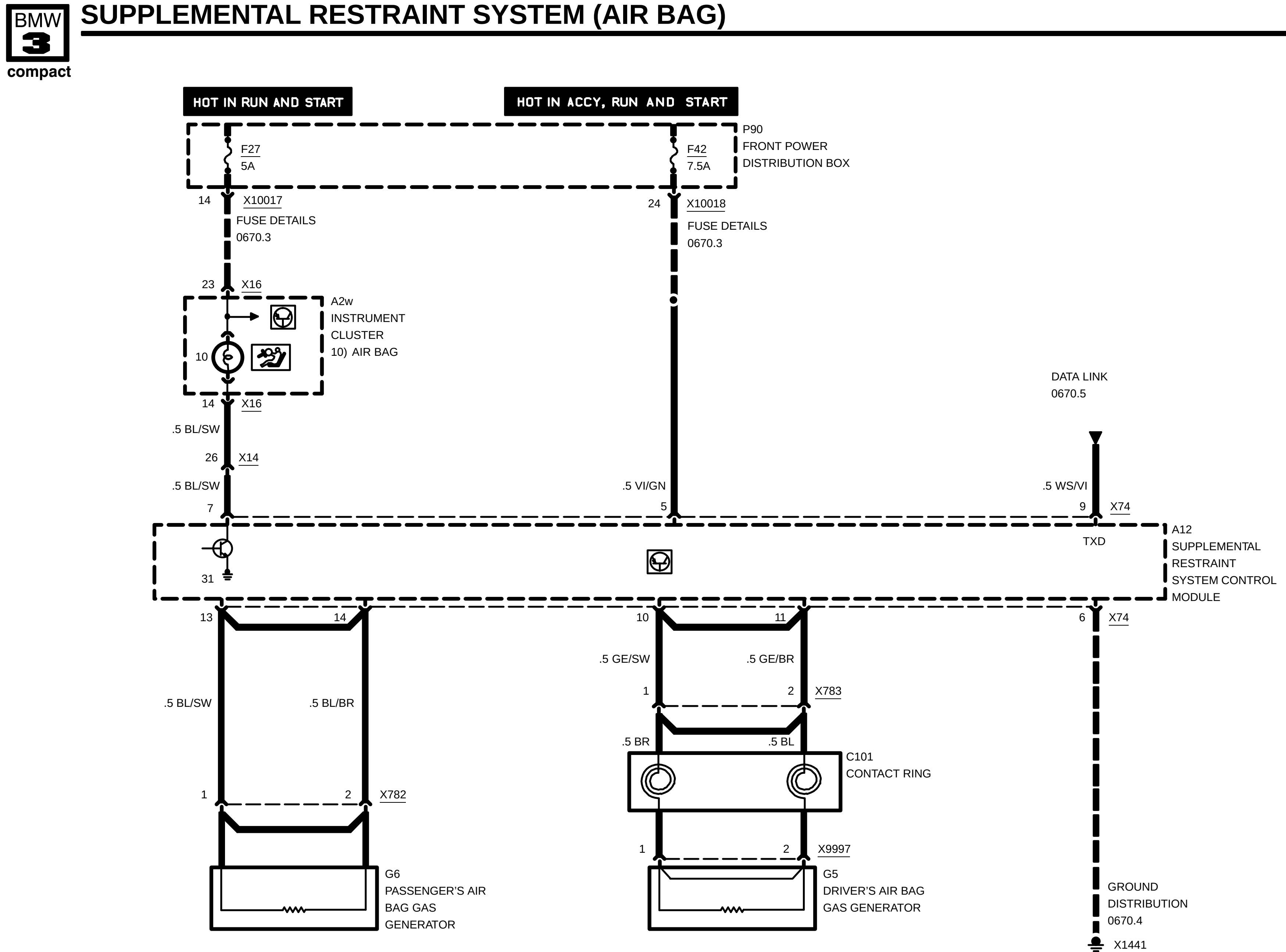
E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
30		Not used	
31		Not used	
32		Not used	
33		Not used	
34	A	Crash signal	Body electronics control module (ZKE IV)
35		Not used	
36		Not used	
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	

E = Input, A = Output, M = Ground

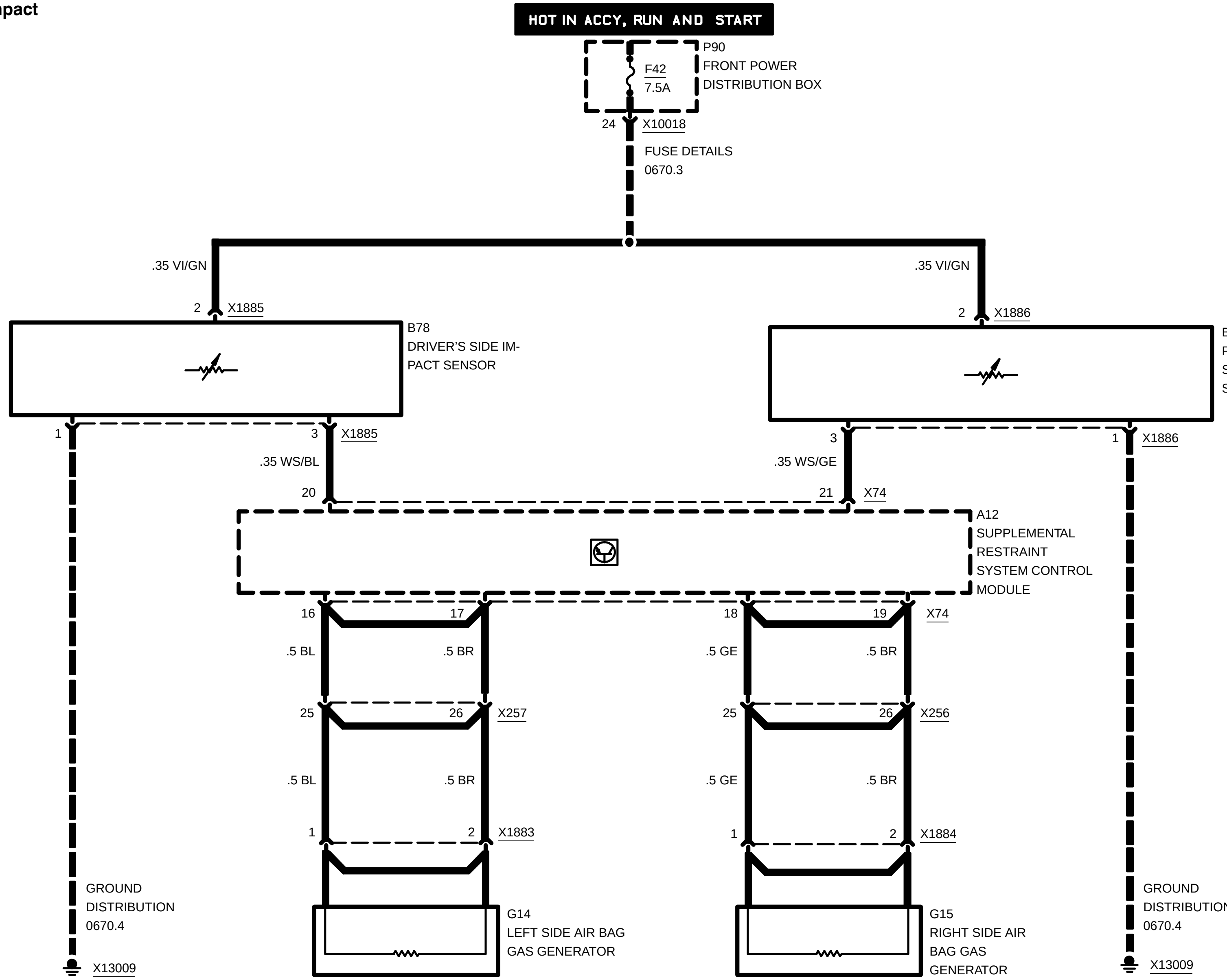
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

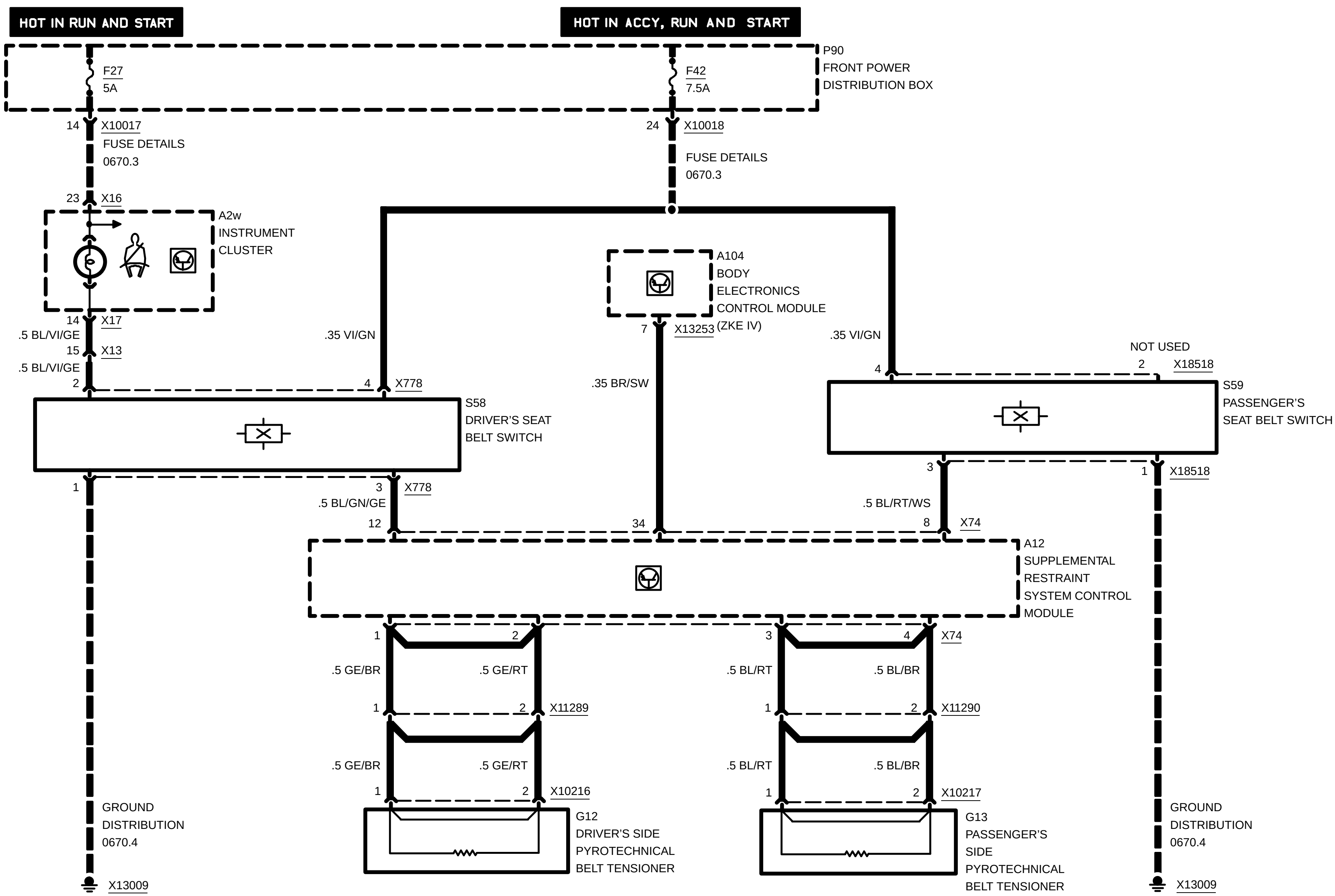
THE DRIVER'S AND PASSENGER'S AND SIDE AIR BAG GENERATORS ARE FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

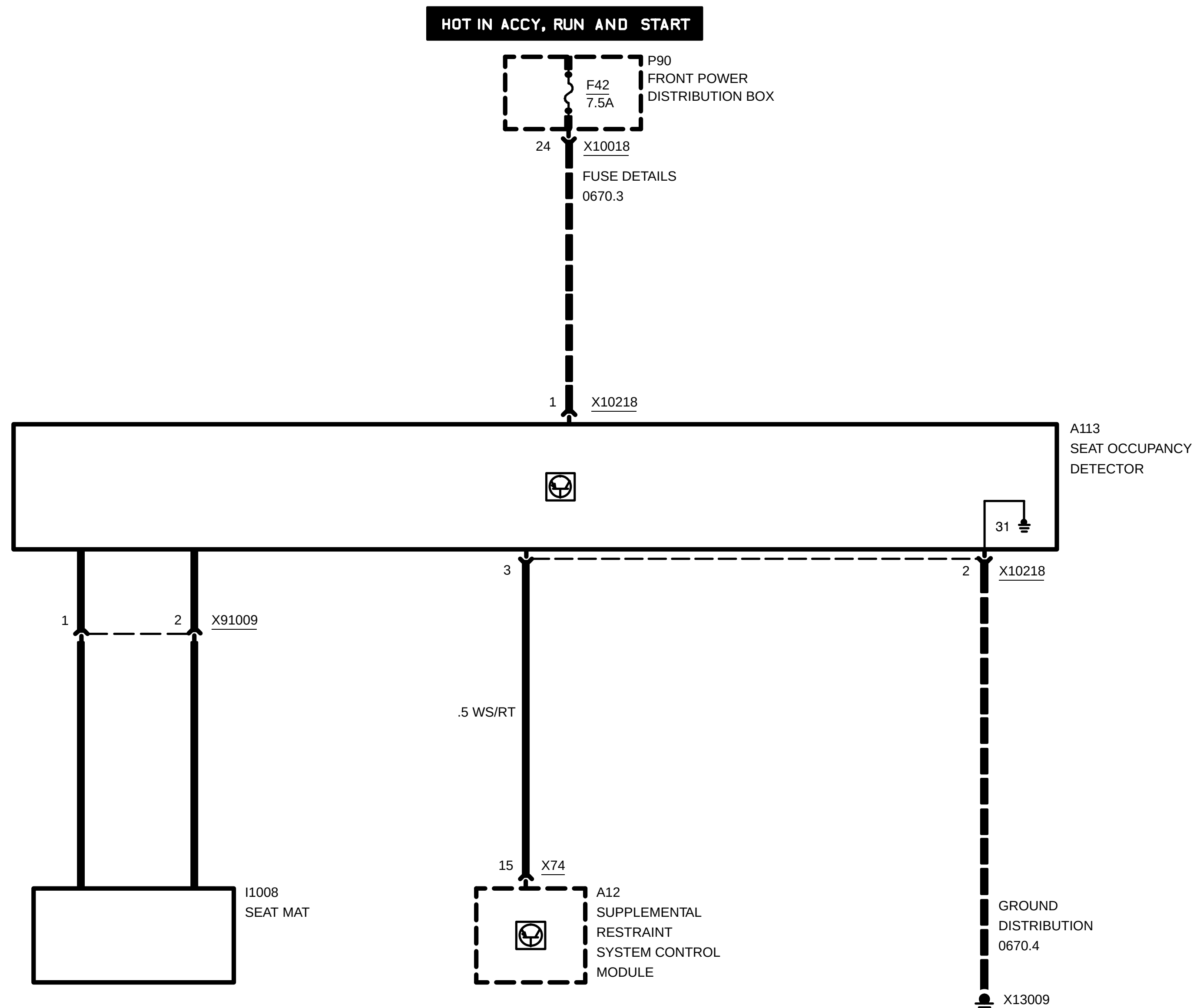


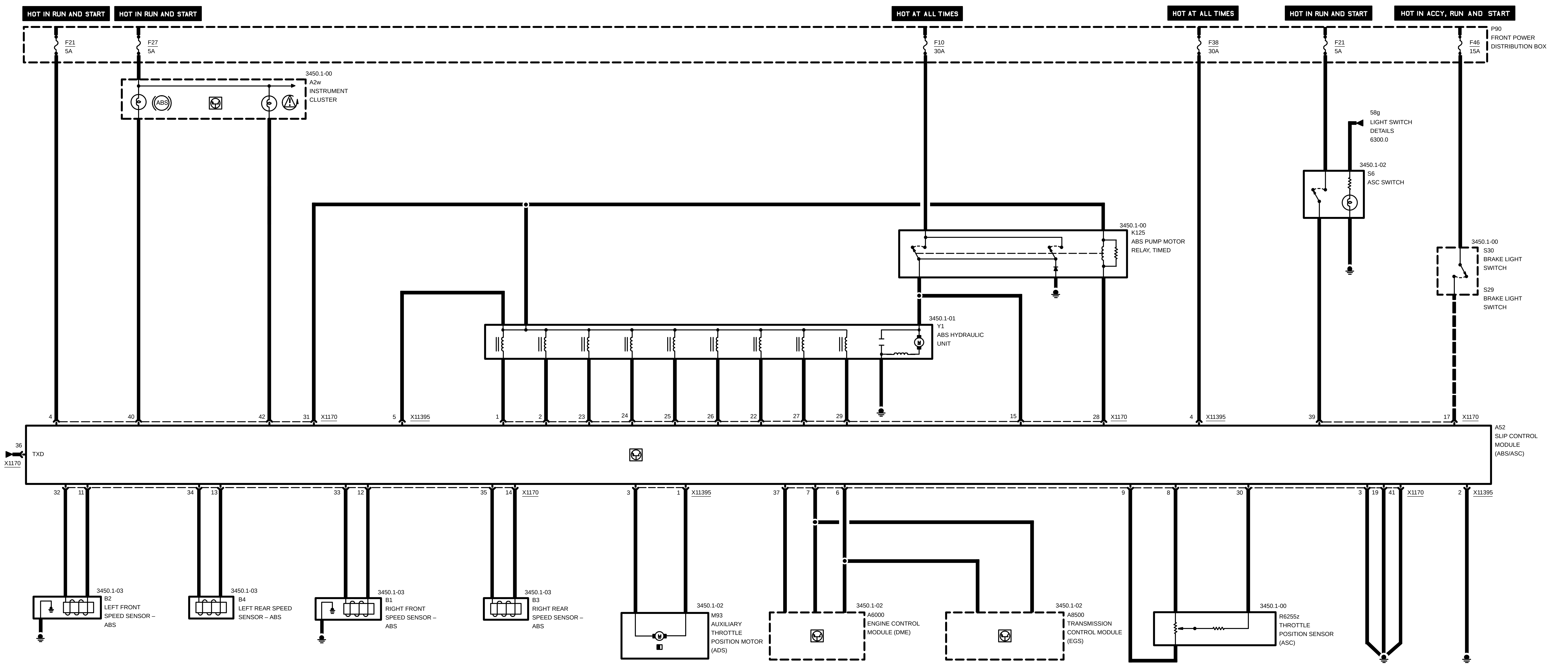
BMW 3 compact

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)




HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN AND START
F21 5A
F27 5A
F10 30A
F38 30A
F21 5A
F46 15A
P90 FRONT POWER DISTRIBUTION BOX
3450.1-00 A2w INSTRUMENT CLUSTER
ABS
58g LIGHT SWITCH DETAILS 6300.0
3450.1-02 S6 ASC SWITCH
3450.1-00 K125 ABS PUMP MOTOR RELAY, TIMED
3450.1-00 S30 BRAKE LIGHT SWITCH
S29 BRAKE LIGHT SWITCH
3450.1-01 Y1 ABS HYDRAULIC UNIT
4 40 42 31 X1170 5 X11395 1 2 23 24 25 26 22 27 29 15 28 X1170 4 X11395 39 17 X1170
36 X1170 TXD
A52 SLIP CONTROL MODULE (ABS/ASC)
32 11 34 13 33 12 35 14 X1170 3 1 X11395 37 7 6 9 8 30 3 19 41 X1170 2 X11395
3450.1-03 B2 LEFT FRONT SPEED SENSOR – ABS
3450.1-03 B4 LEFT REAR SPEED SENSOR – ABS
3450.1-03 B1 RIGHT FRONT SPEED SENSOR – ABS
3450.1-03 B3 RIGHT REAR SPEED SENSOR – ABS
3450.1-02 M93 AUXILIARY THROTTLE POSITION MOTOR (ADS)
3450.1-02 A6000 ENGINE CONTROL MODULE (DME)
3450.1-02 A8500 TRANSMISSION CONTROL MODULE (EGS)
3450.1-00 R6255z THROTTLE POSITION SENSOR (ASC)

Pin Assignments

X1170

Pin	Type	Description/Function	Connection
1	A	Left front outlet valve	ABS hydraulic unit
2	A	Left front inlet valve	ABS hydraulic unit
3	M	Ground	Ground point
4	E	Voltage supply	Fuse 21
5		Not used	
6	E/A	CAN-LOW	DME/EGS module
7	E/A	CAN-HIGH	DME/EGS module
8	A	Accelerator pedal position, voltage	Accelerator pedal position sensor (ASC)
9	M	Accelerator pedal position, ground	Accelerator pedal position sensor (ASC)
10		Not used	
11	E	Speed signal	Left front speed sensor ABS
12	E	Speed signal	Right front speed sensor ABS
13	E	Speed signal	Left rear speed sensor ABS
14	E	Speed signal	Right rear speed sensor ABS
15	E	Signal pump motor	ABS pump motor relay, timed
16		Not used	
17	E	Brake pedal position	Brake light switch
18		Not used	
19	M	Ground	Ground point
20		Not used	
21		Not used	
22	A	Right rear outlet valve	ABS hydraulic unit
23	A	Right front inlet valve	ABS hydraulic unit
24	A	Right front outlet valve	ABS hydraulic unit
25	A	Left rear outlet valve	ABS hydraulic unit
26	A	Left rear inlet valve	ABS hydraulic unit
27	A	Right rear inlet valve	ABS hydraulic unit
28	A	Activate relay	ABS pump motor relay, timed
29	A	Seperator valve	ABS hydraulic unit
30	E	Accelerator pedal position, signal	Accelerator pedal position sensor (ASC)

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
31	A	ABS signal	ABS pump motor relay/Hydraulic unit
32	A	Sensor ground	Left front speed sensor ABS
33	A	Sensor ground	Right front speed sensor ABS
34	A	Sensor ground	Left rear speed sensor ABS
35	A	Sensor ground	Right rear speed sensor ABS
36	E/A	TxD diagnostic data link	Data link connector
37	A	Speed signal, right rear	DME module
38		Not used	
39	E	ASC signal	ASC switch
40	A	ABS signal	Instrument cluster
41	M	Ground	Ground point
42	A	ASC signal	Instrument cluster

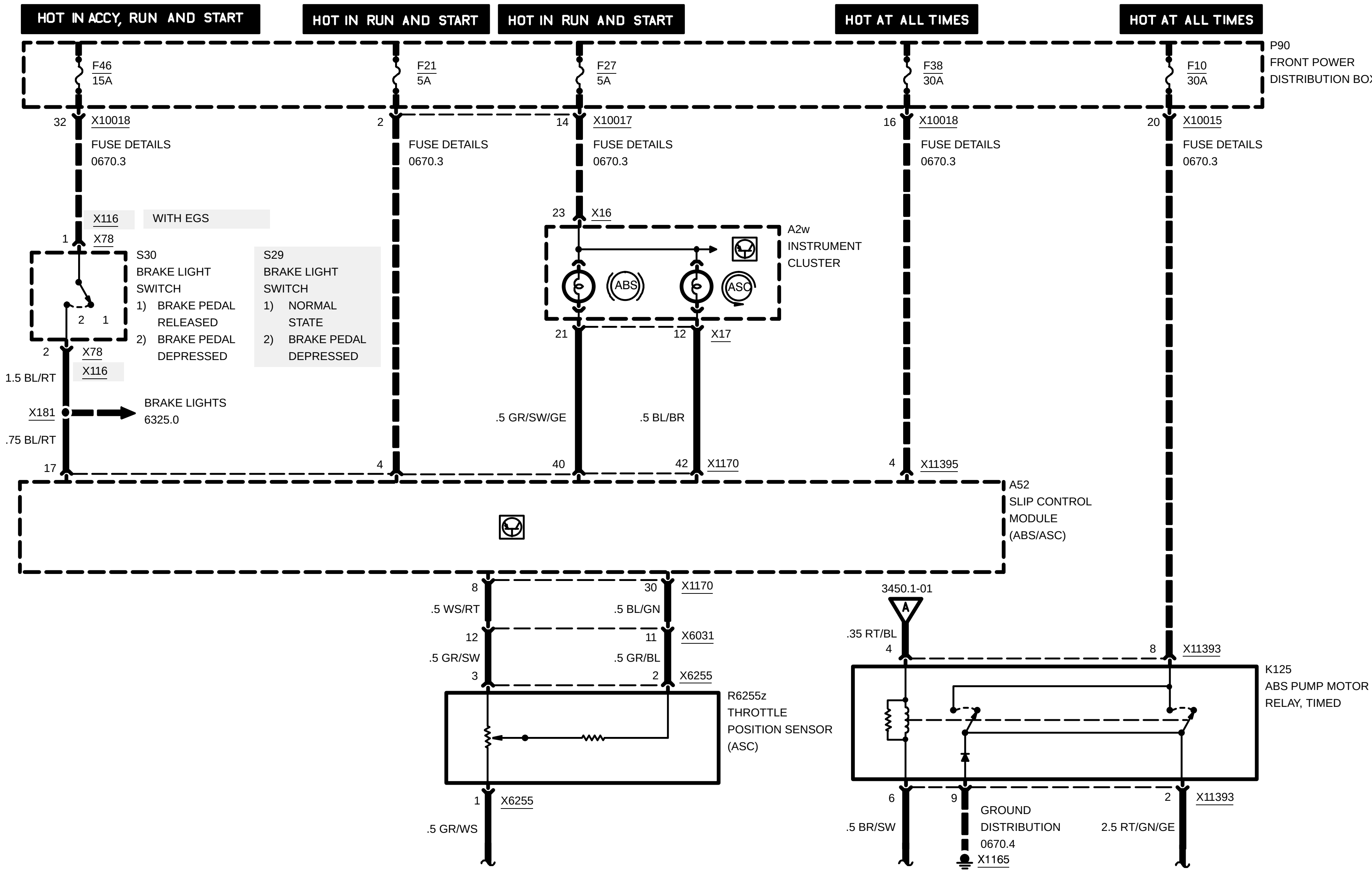
X11395

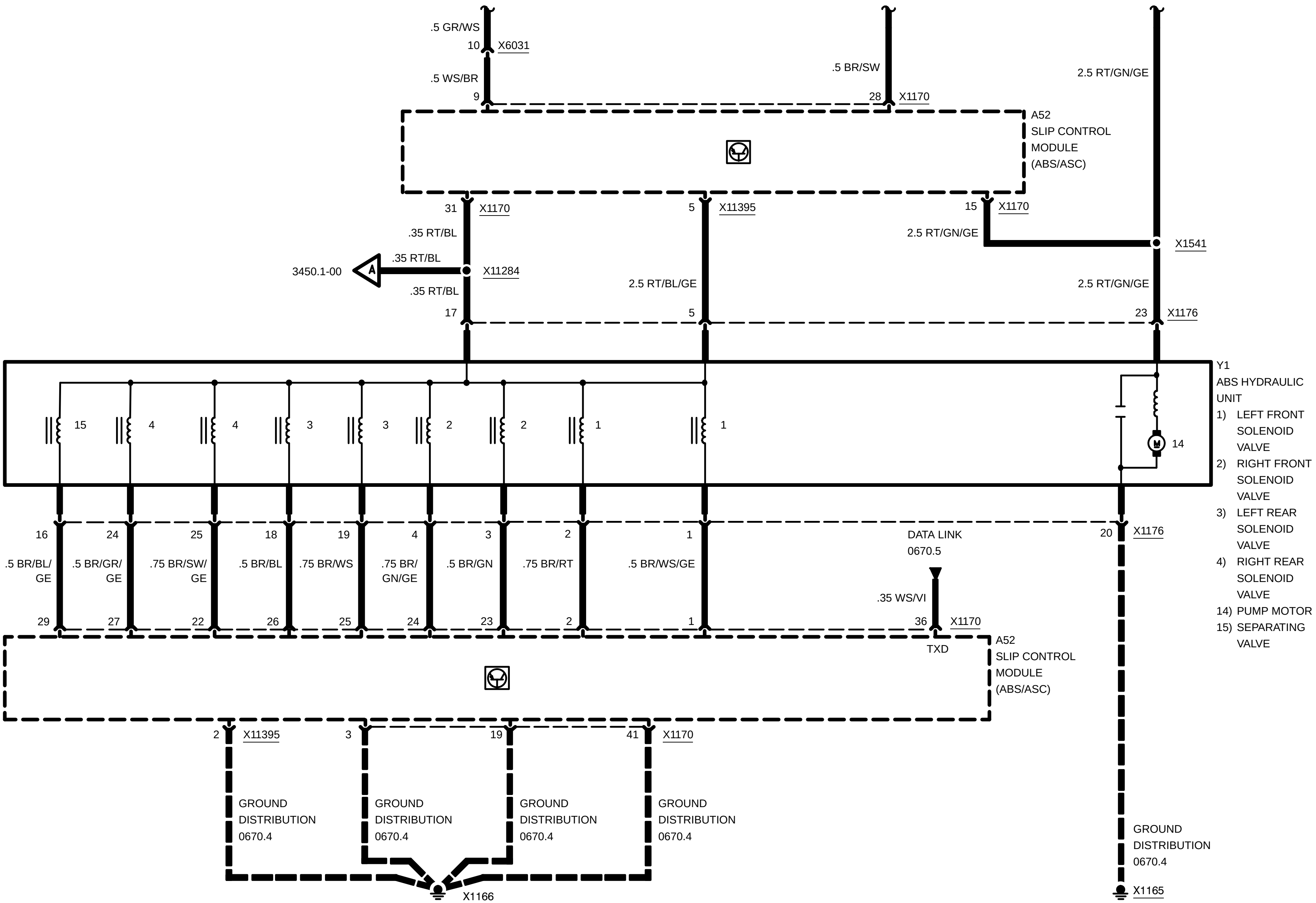
Pin	Type	Description/Function	Connection
1	A	Auxiliary throttle position, voltage	Auxiliary throttle position motor (ADS)
2	M	Ground	Ground point
3	A	Auxiliary throttle position, ground	Auxiliary throttle position motor (ADS)
4	E	Voltage supply	Fuse 38
5	A	ABS signal	ABS hydraulic unit

E = Input, A = Output, M = Ground

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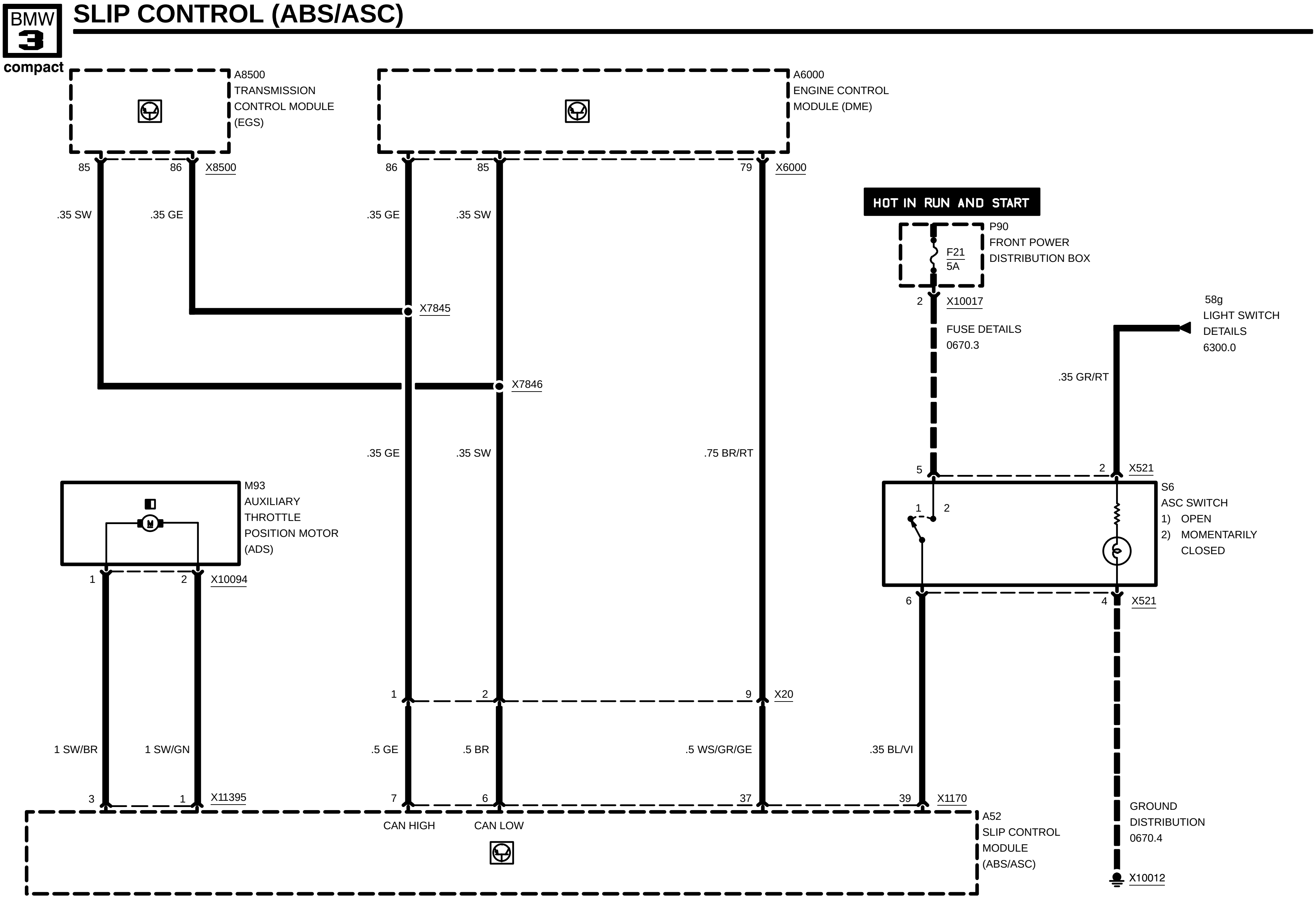
SLIP CONTROL (ABS/ASC)



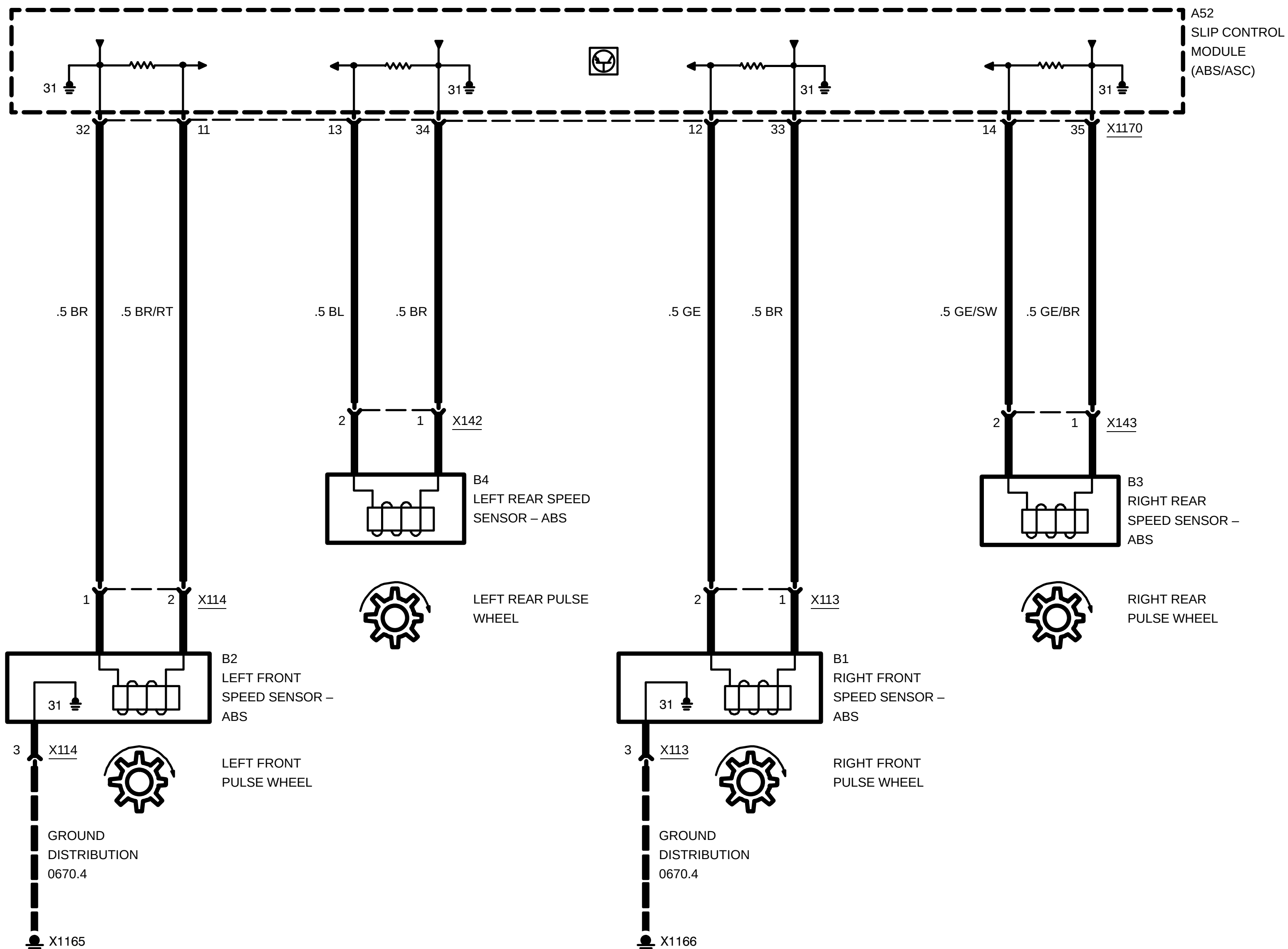


.5 GR/WS
10
X6031
.5 WS/BR
9
.5 BR/SW
28
X1170
2.5 RT/GN/GE
A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
X1170
5
X11395
15
X1170
.35 RT/BL
2.5 RT/GN/GE
X1541
3450.1-00
A
.35 RT/BL
X11284
.35 RT/BL
2.5 RT/BL/GE
2.5 RT/GN/GE
17
5
23
X1176
Y1
ABS HYDRAULIC
UNIT
1) LEFT FRONT SOLENOID VALVE
2) RIGHT FRONT SOLENOID VALVE
3) LEFT REAR SOLENOID VALVE
4) RIGHT REAR SOLENOID VALVE
14) PUMP MOTOR
15) SEPARATING VALVE
15
4
4
3
3
2
2
1
1
14
16
24
25
18
19
4
3
2
1
20
X1176
DATA LINK
0670.5
.5 BR/BL/GE
.5 BR/GR/GE
.75 BR/SW/GE
.5 BR/BL
.75 BR/WS
.75 BR/GN/GE
.5 BR/GN
.75 BR/RT
.5 BR/WS/GE
.35 WS/VI
29
27
22
26
25
24
23
2
1
36
X1170
TXD
A52
SLIP CONTROL
MODULE
(ABS/ASC)
2
X11395
3
19
41
X1170
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165

SLIP CONTROL (ABS/ASC)



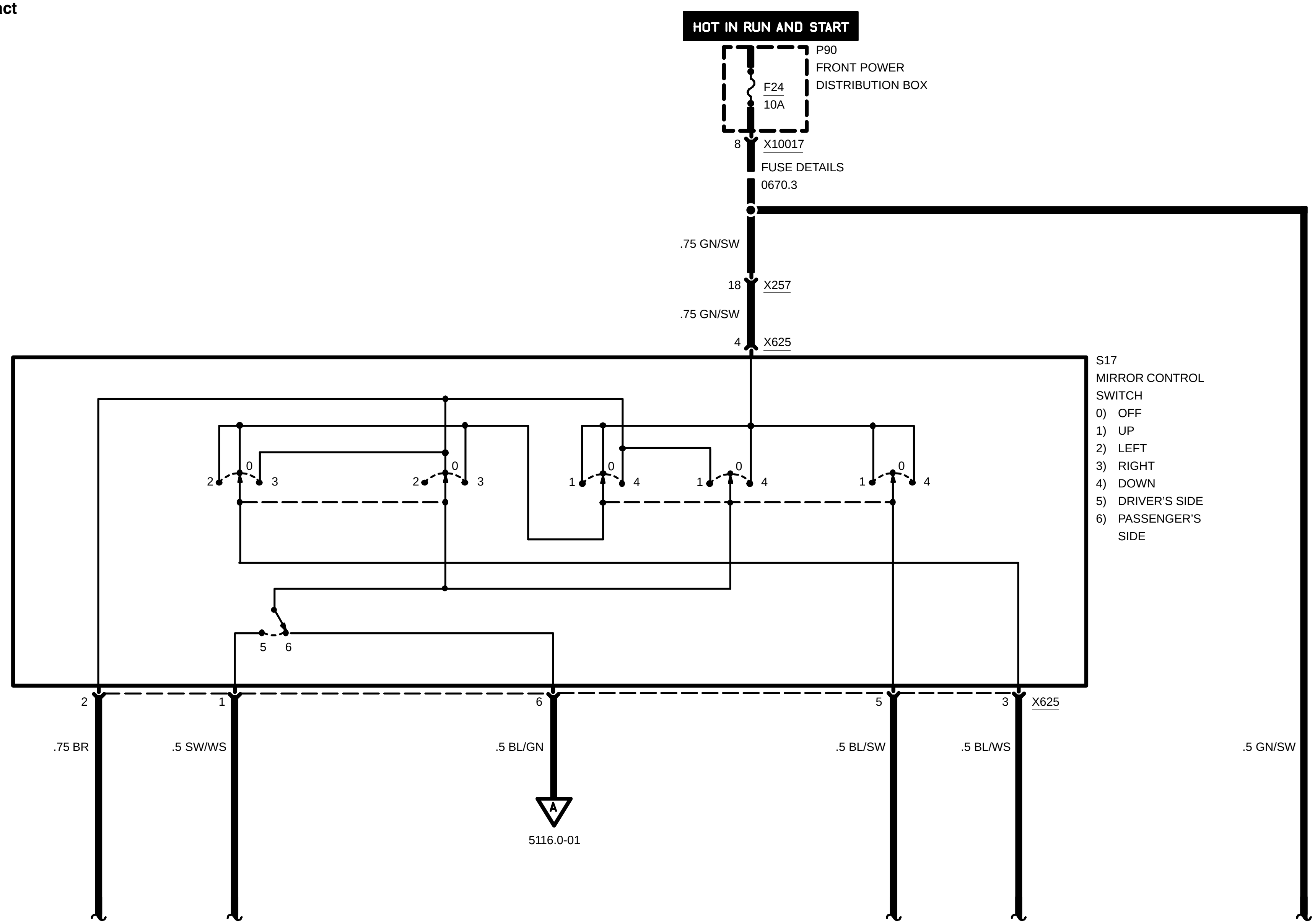
SLIP CONTROL (ABS/ASC)

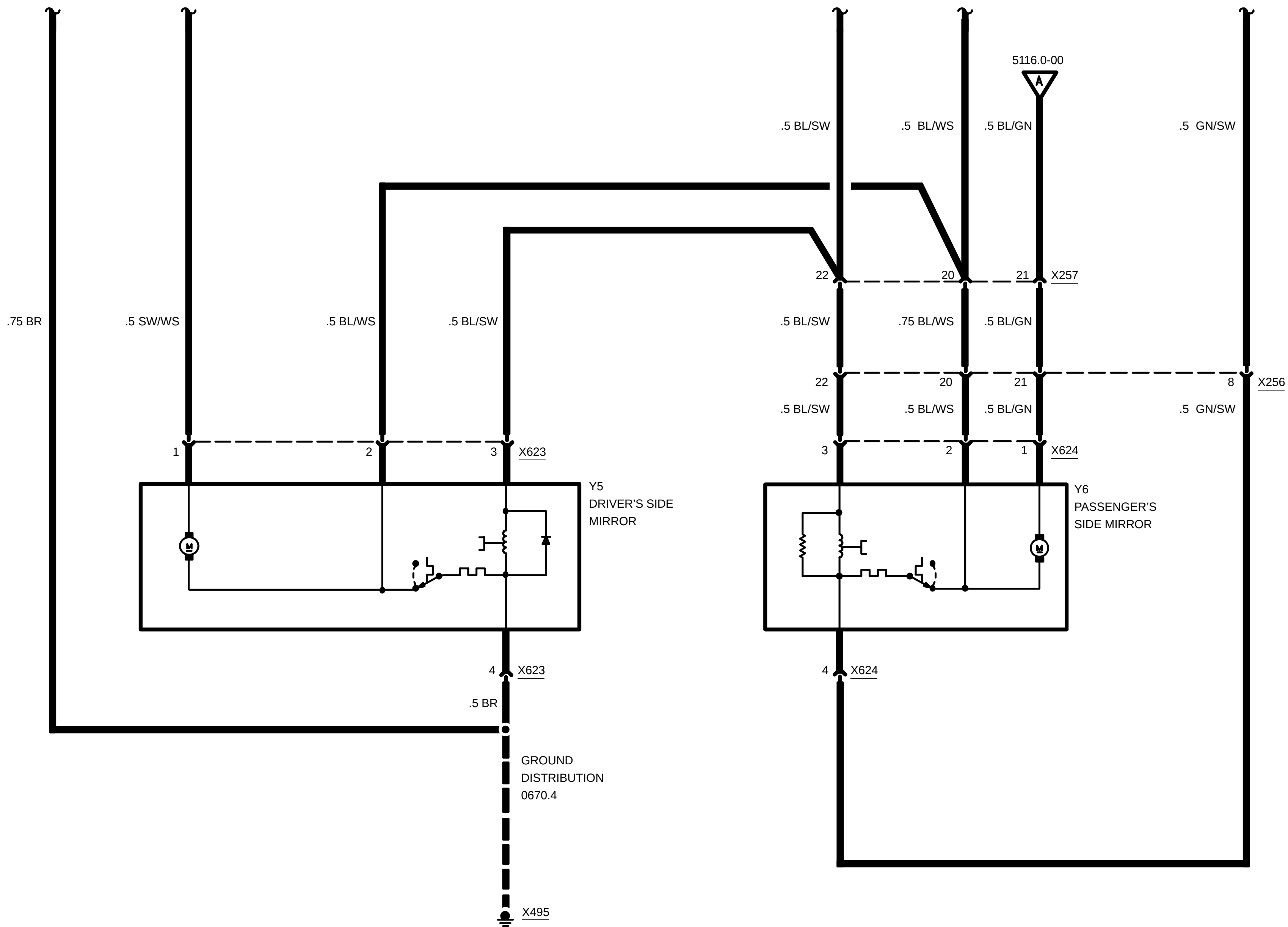


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5116.0 POWER MIRRORS

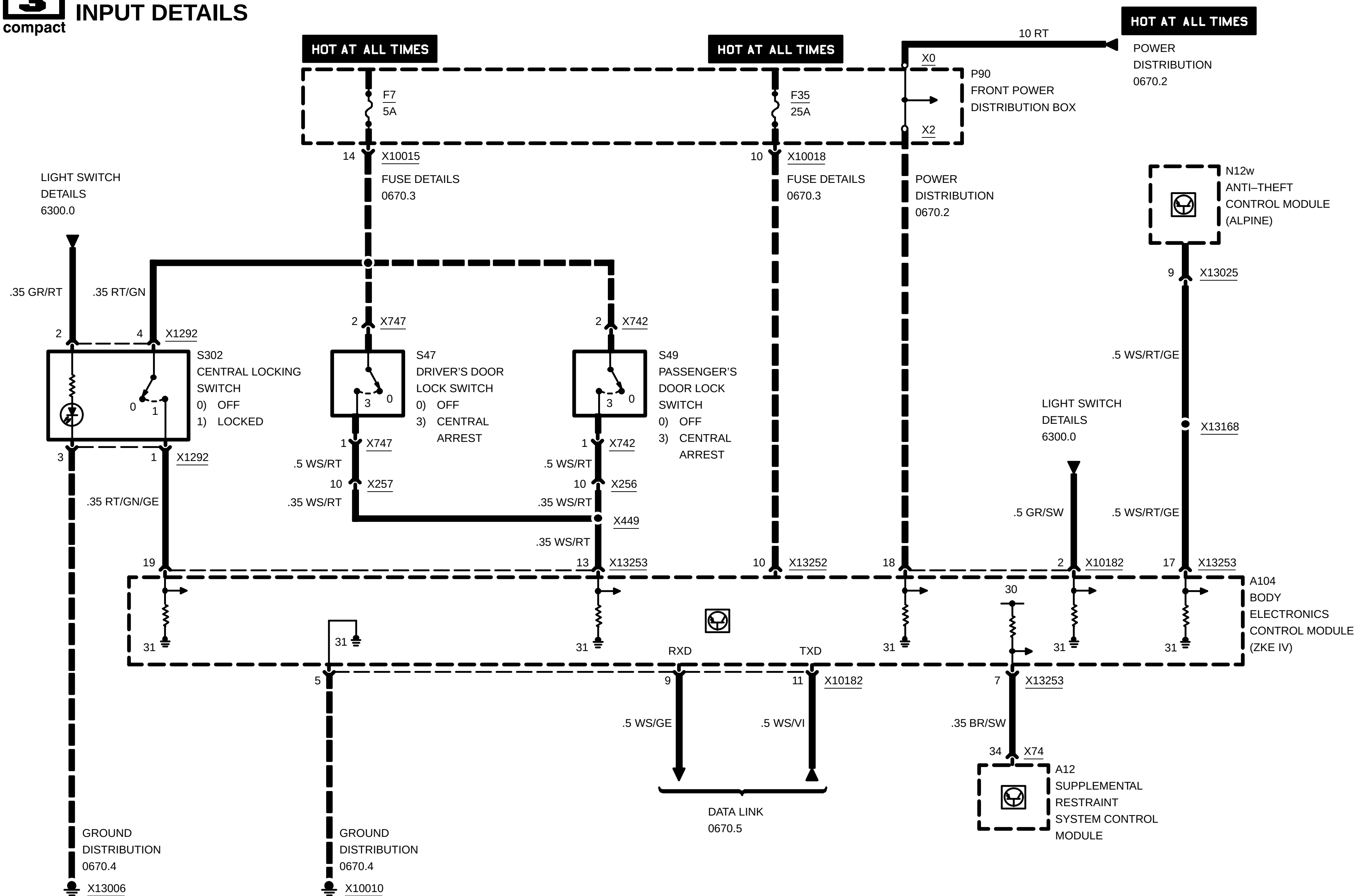
OUTSIDE MIRROR




5116.0-00
A
.75 BR
.5 SW/WS
.5 BL/WS
.5 BL/SW
.5 BL/SW
.5 BL/WS
.5 BL/GN
.5 GN/SW
22
20
21
X257
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
8
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
.5 GN/SW
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
GROUND
DISTRIBUTION
0670.4
X495

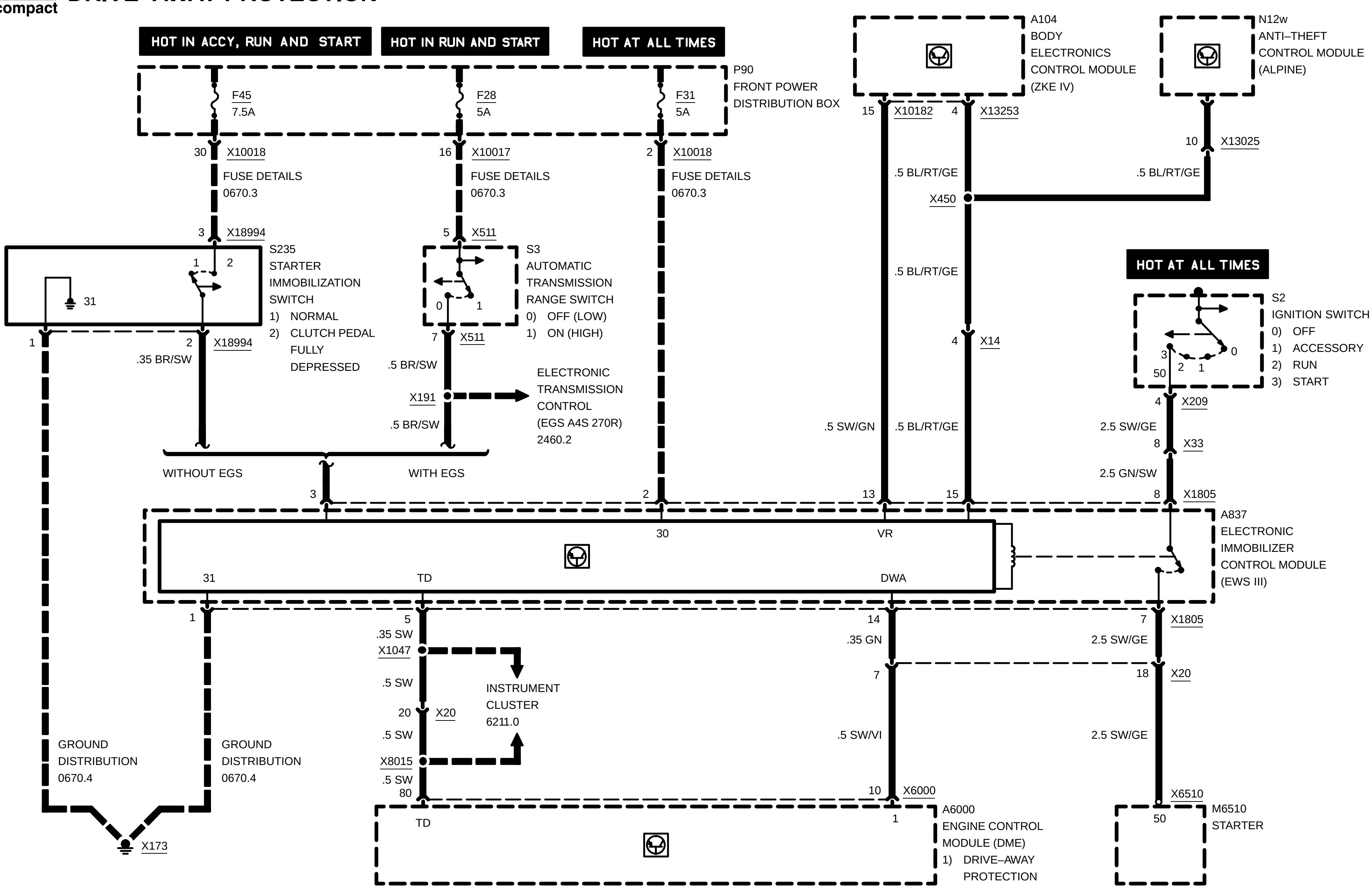
5126.0 ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS



ZKE CENTRAL LOCKING (ZV)

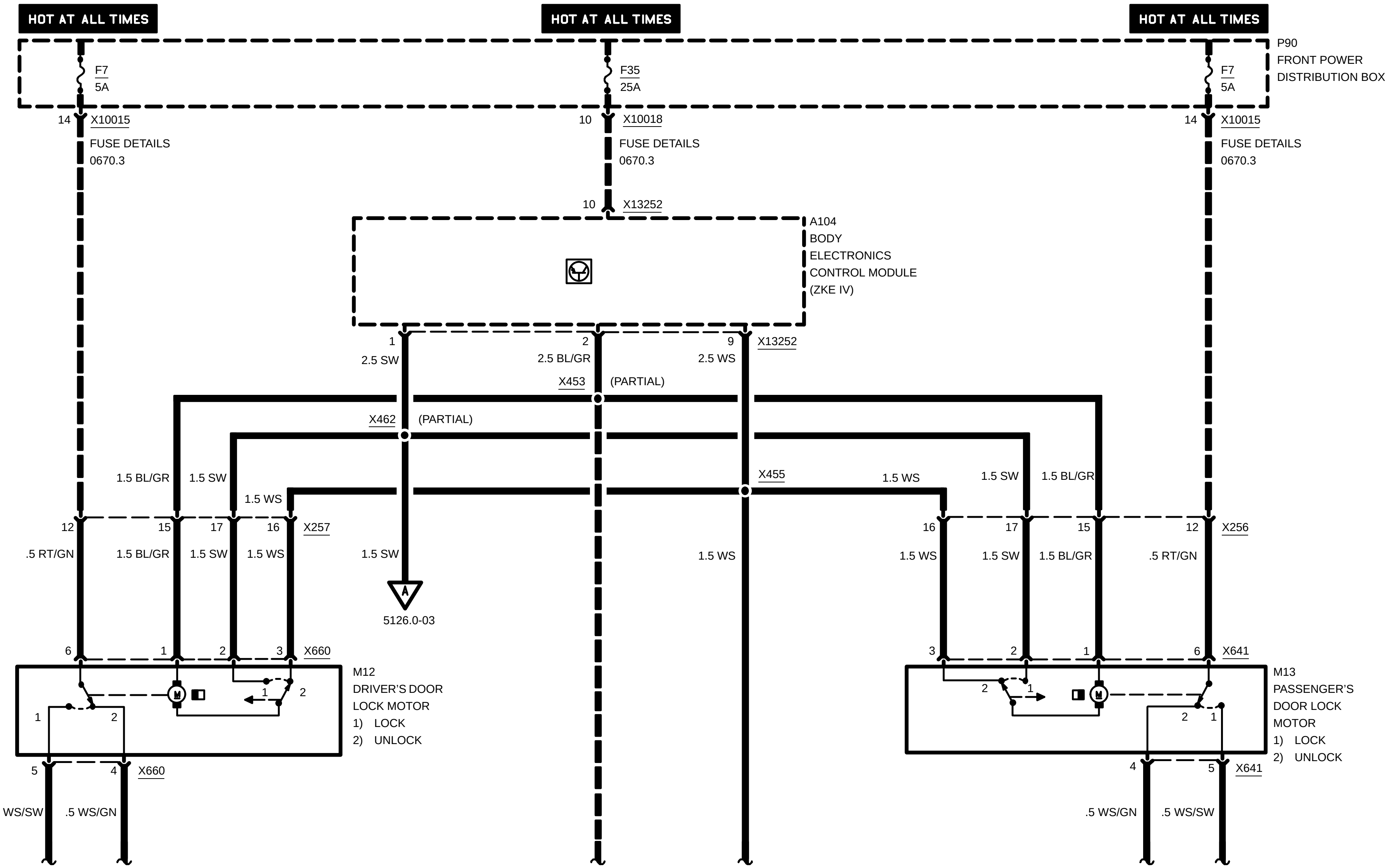
DRIVE–AWAY PROTECTION

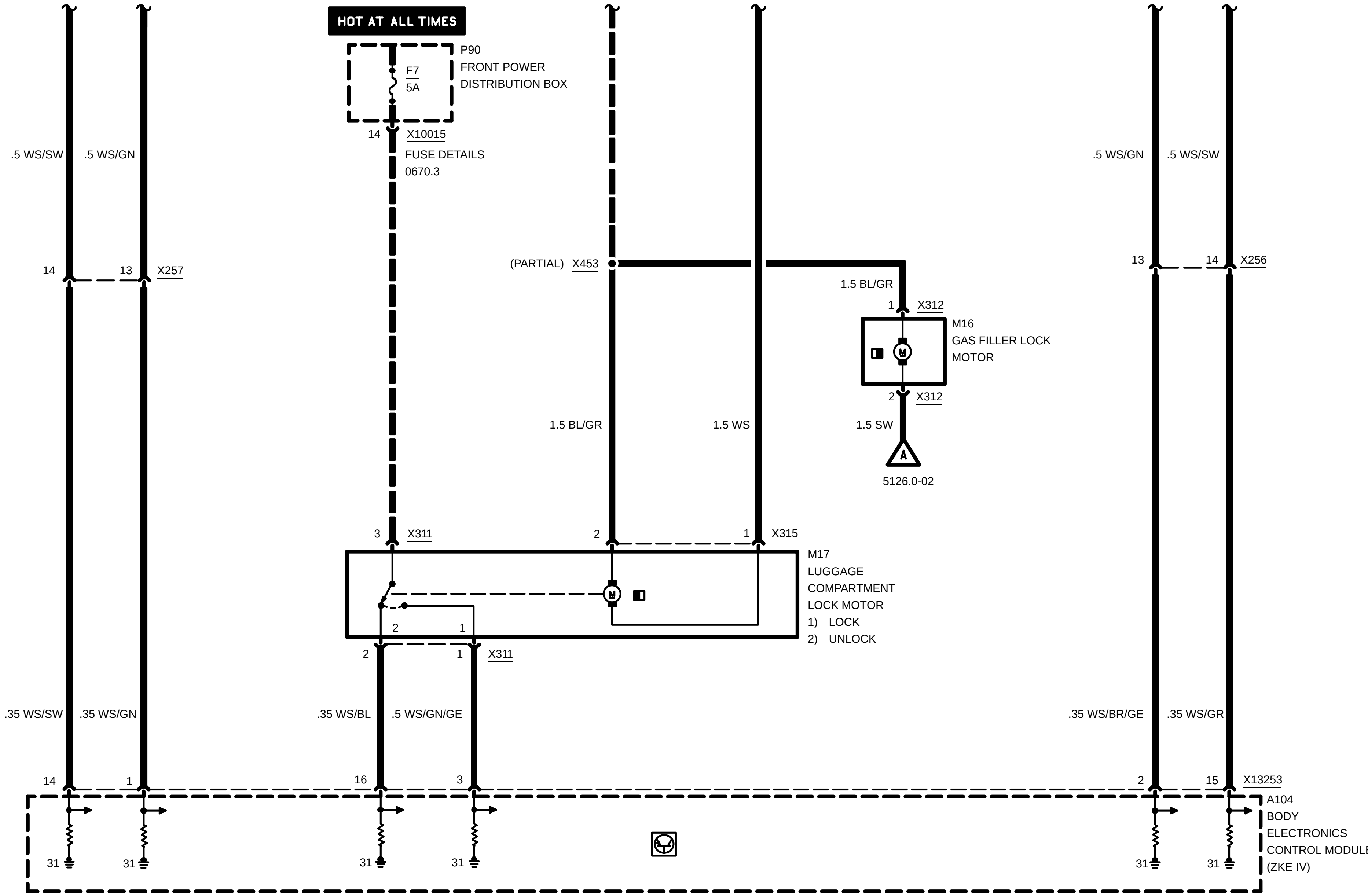


ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

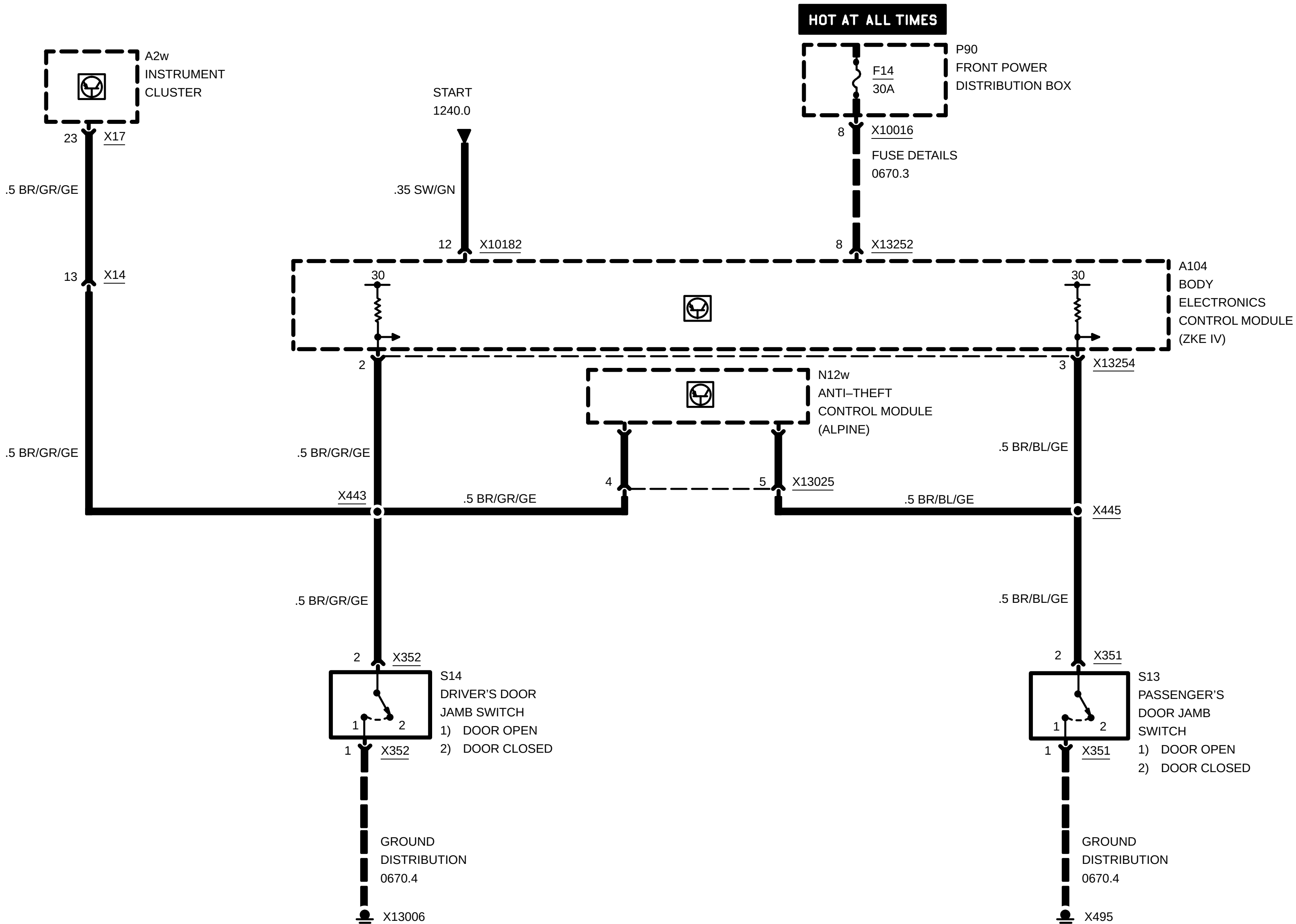
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HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F7
5A
14
X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
14
13
X257
(PARTIAL)
X453
1.5 BL/GR
1
X312
M16
GAS FILLER LOCK
MOTOR
2
X312
1.5 BL/GR
1.5 WS
1.5 SW
5126.0-02
.5 WS/GN
.5 WS/SW
13
14
X256
3
X311
2
1
X315
M17
LUGGAGE
COMPARTMENT
LOCK MOTOR
1) LOCK
2) UNLOCK
2
1
2
1
X311
.35 WS/SW
.35 WS/GN
.35 WS/BL
.5 WS/GN/GE
.35 WS/BR/GE
.35 WS/GR
14
1
16
3
2
15
X13253
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
31
31
31
31
31
31

5133.0 POWER WINDOWS (FH)

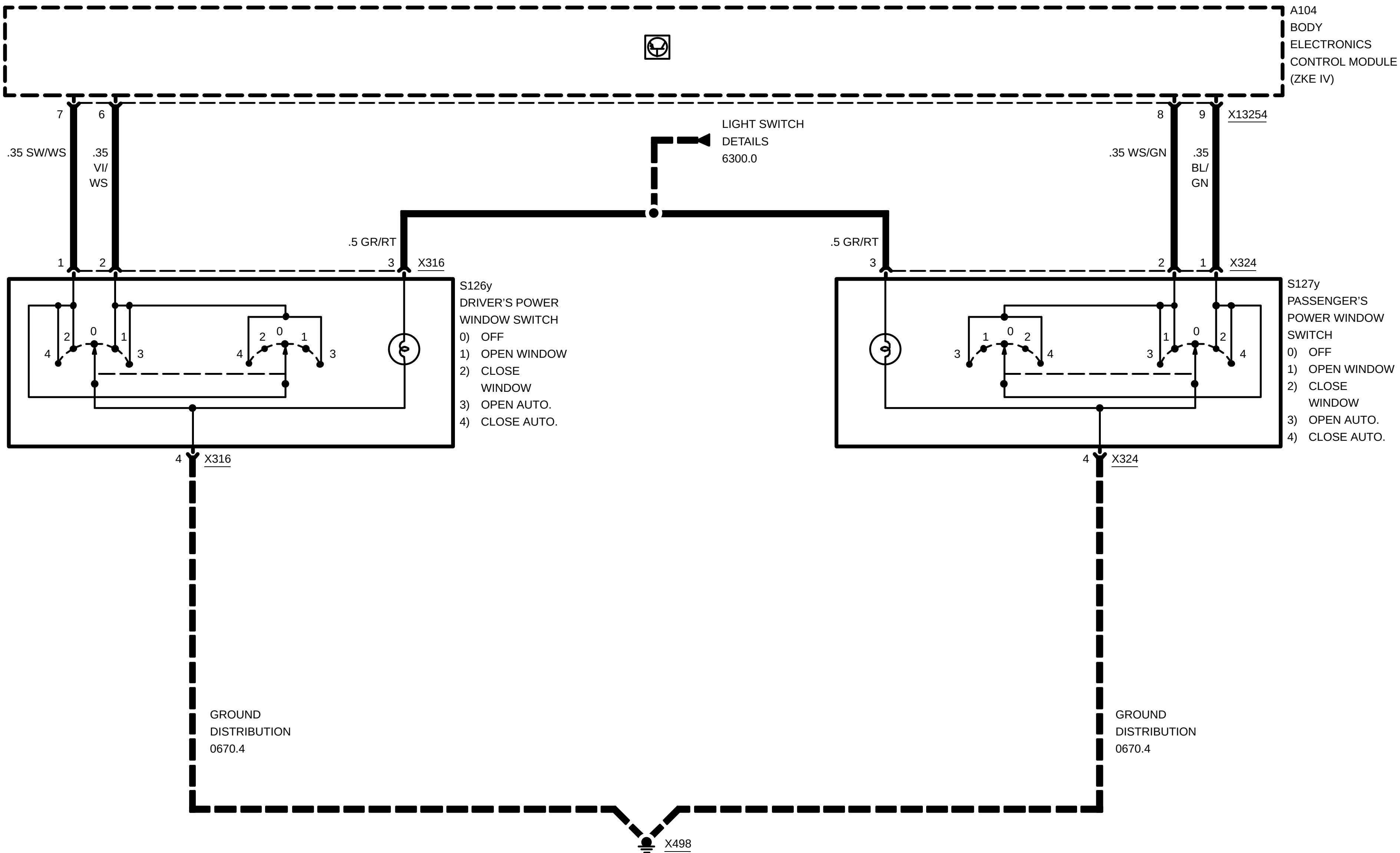
INPUT DETAILS



BMW 3 compact

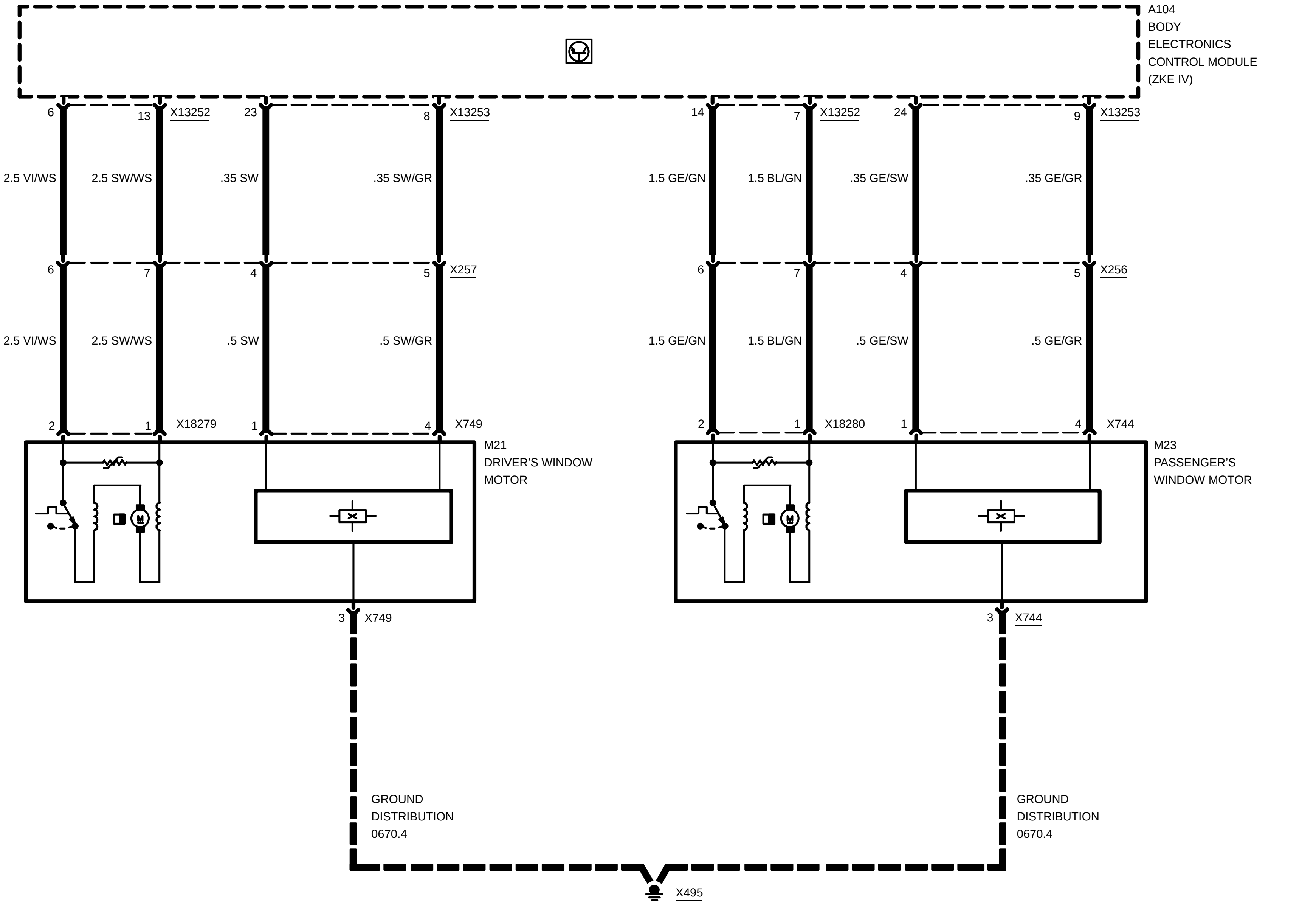
POWER WINDOWS (FH)

INPUT DETAILS



POWER WINDOWS (FH)

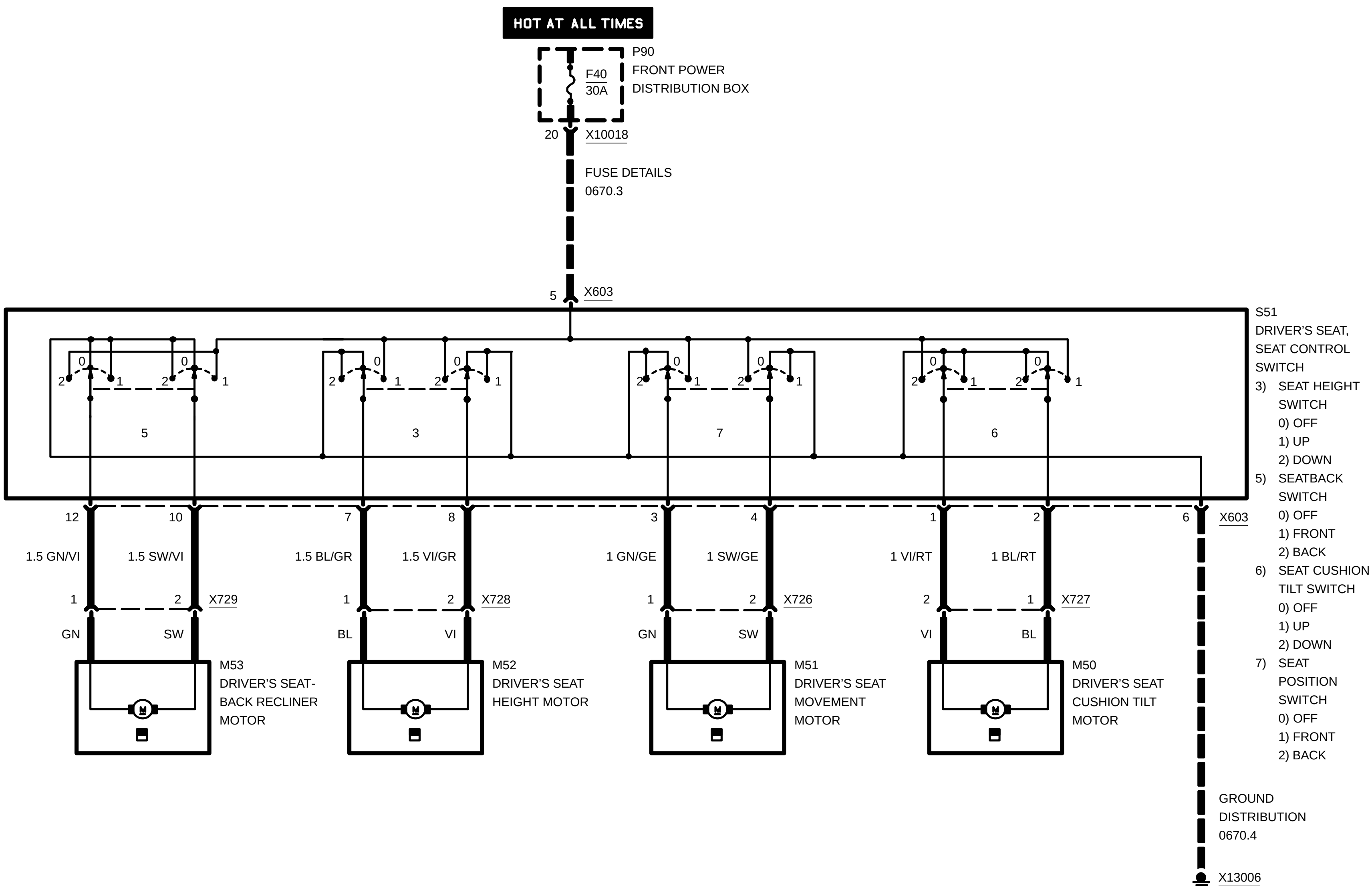
OUTPUT DETAILS



BMW 3 compact

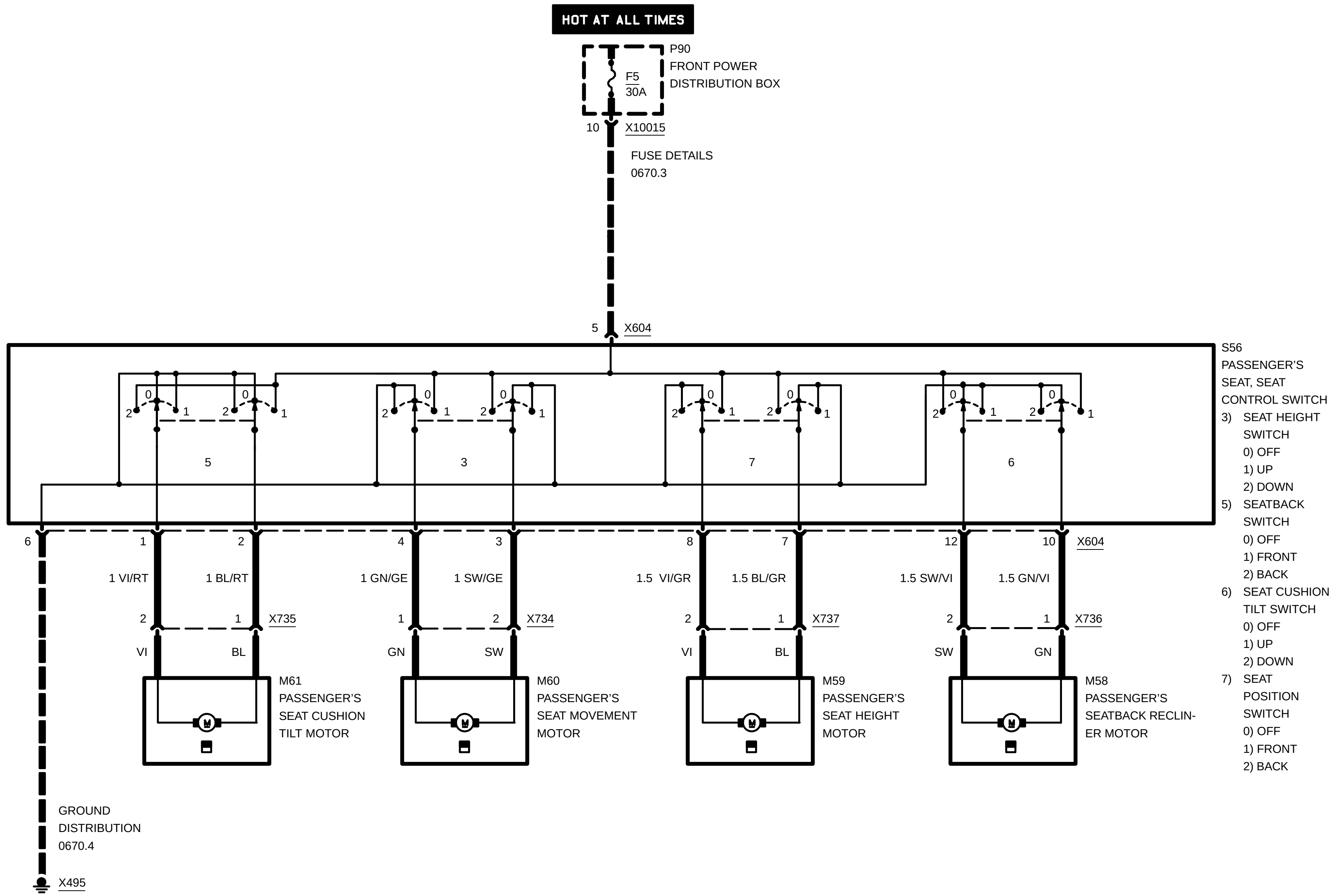
5200.0 POWER SEATS

DRIVER'S SEAT

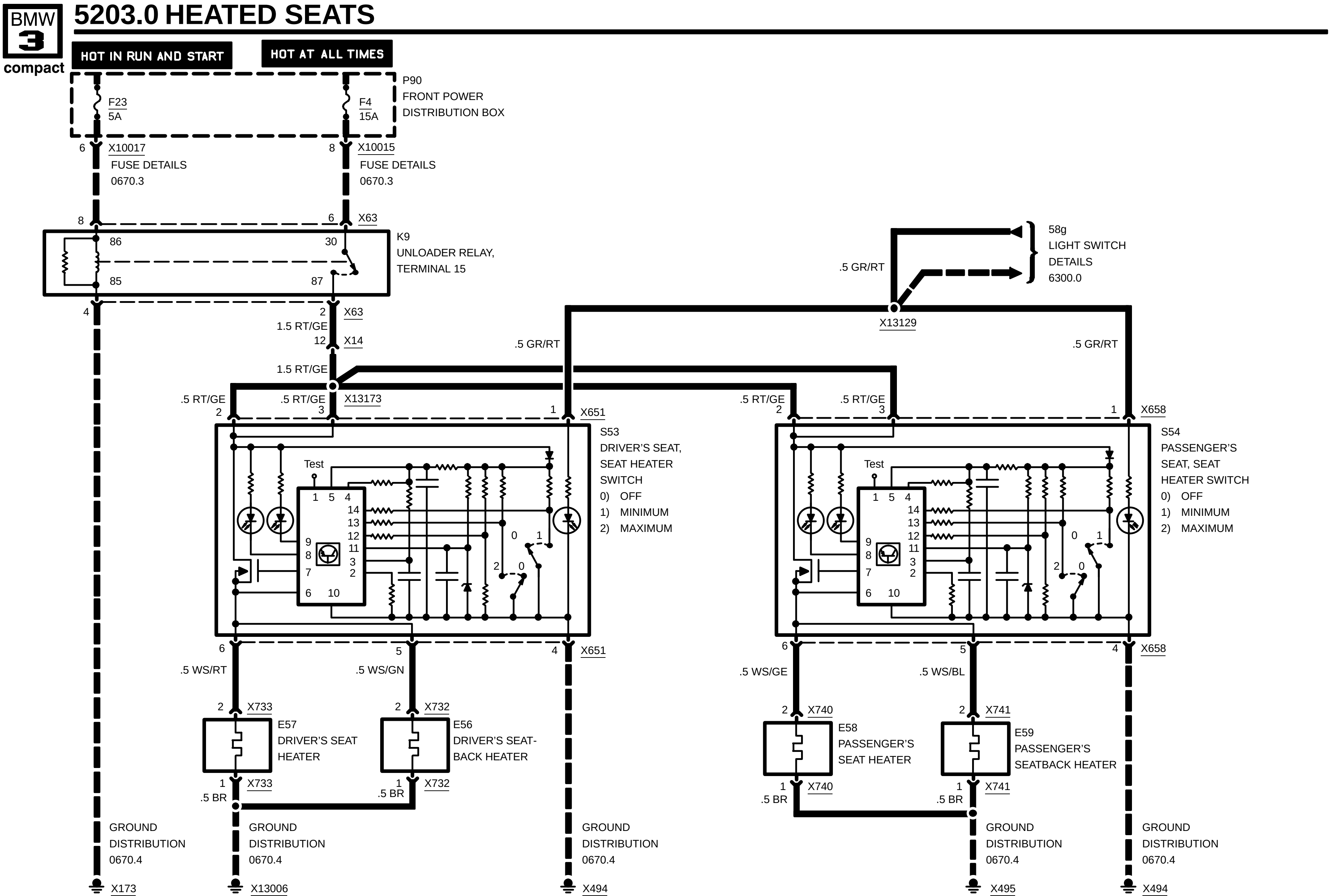


POWER SEATS

PASSENGER'S SEAT

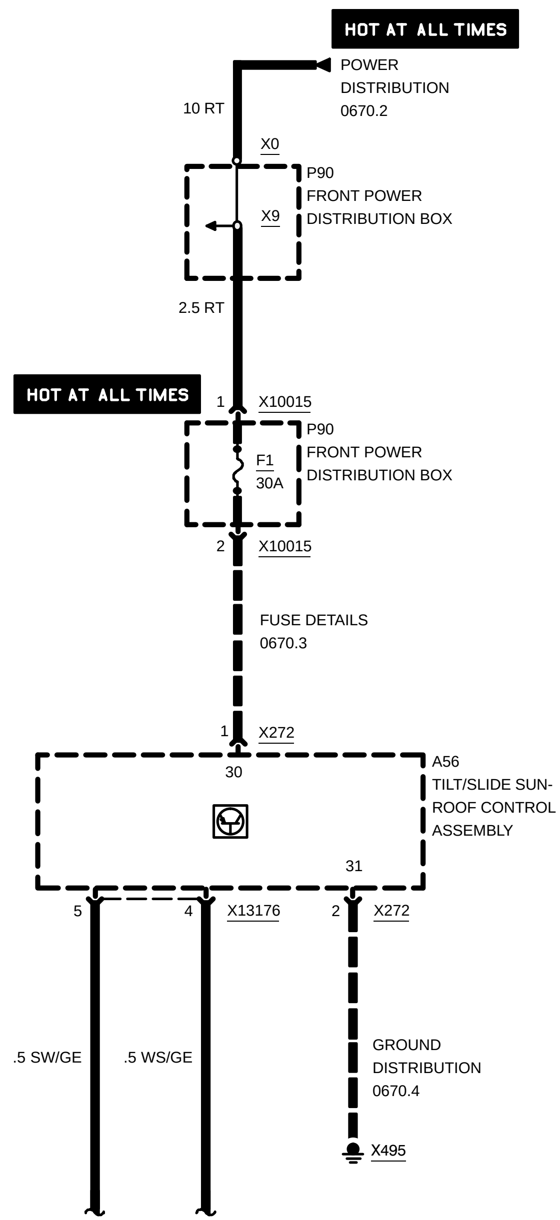


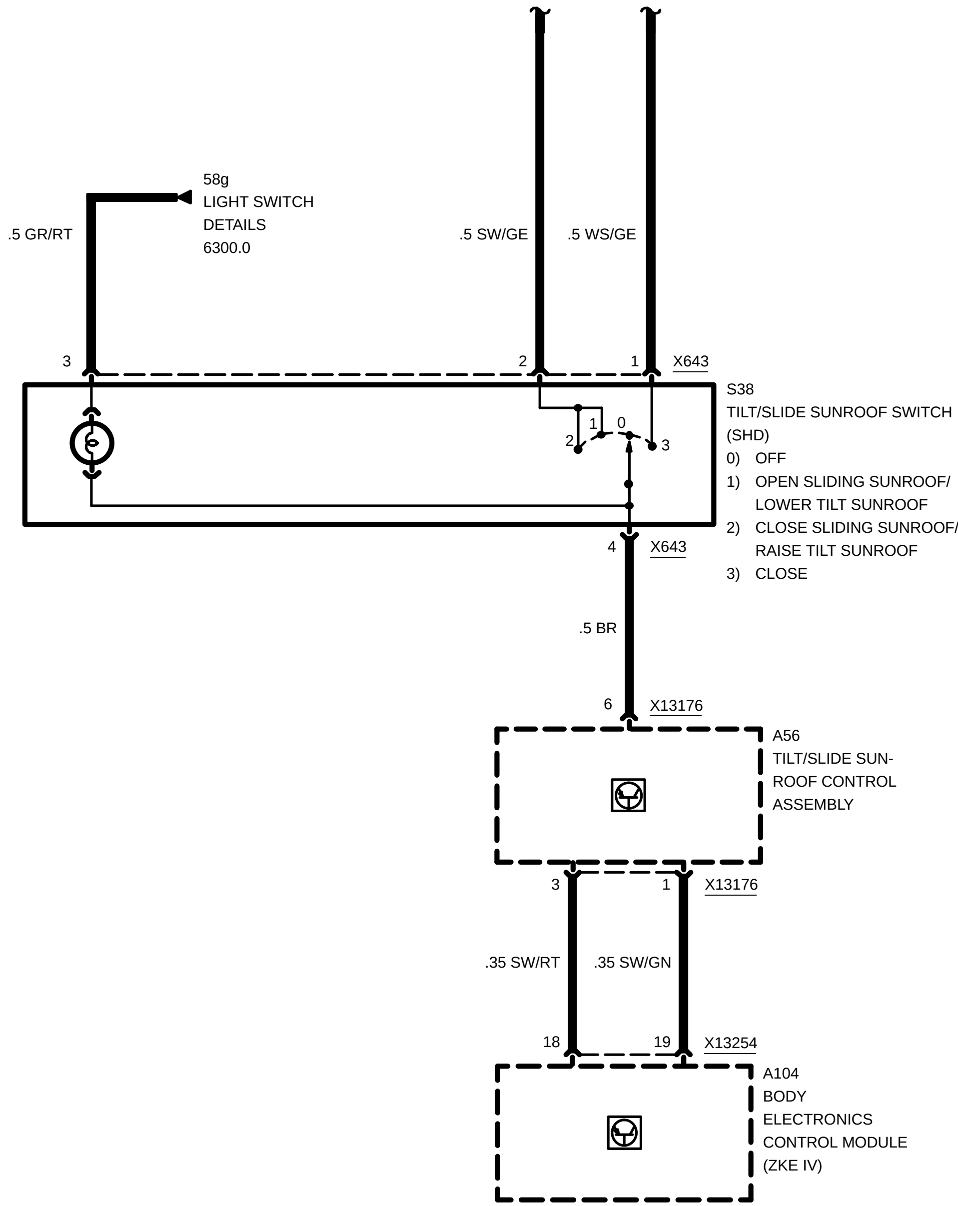
5203.0 HEATED SEATS



BMW 3 compact

5410.1 POWER TILT/SLIDE SUNROOF (SHD)

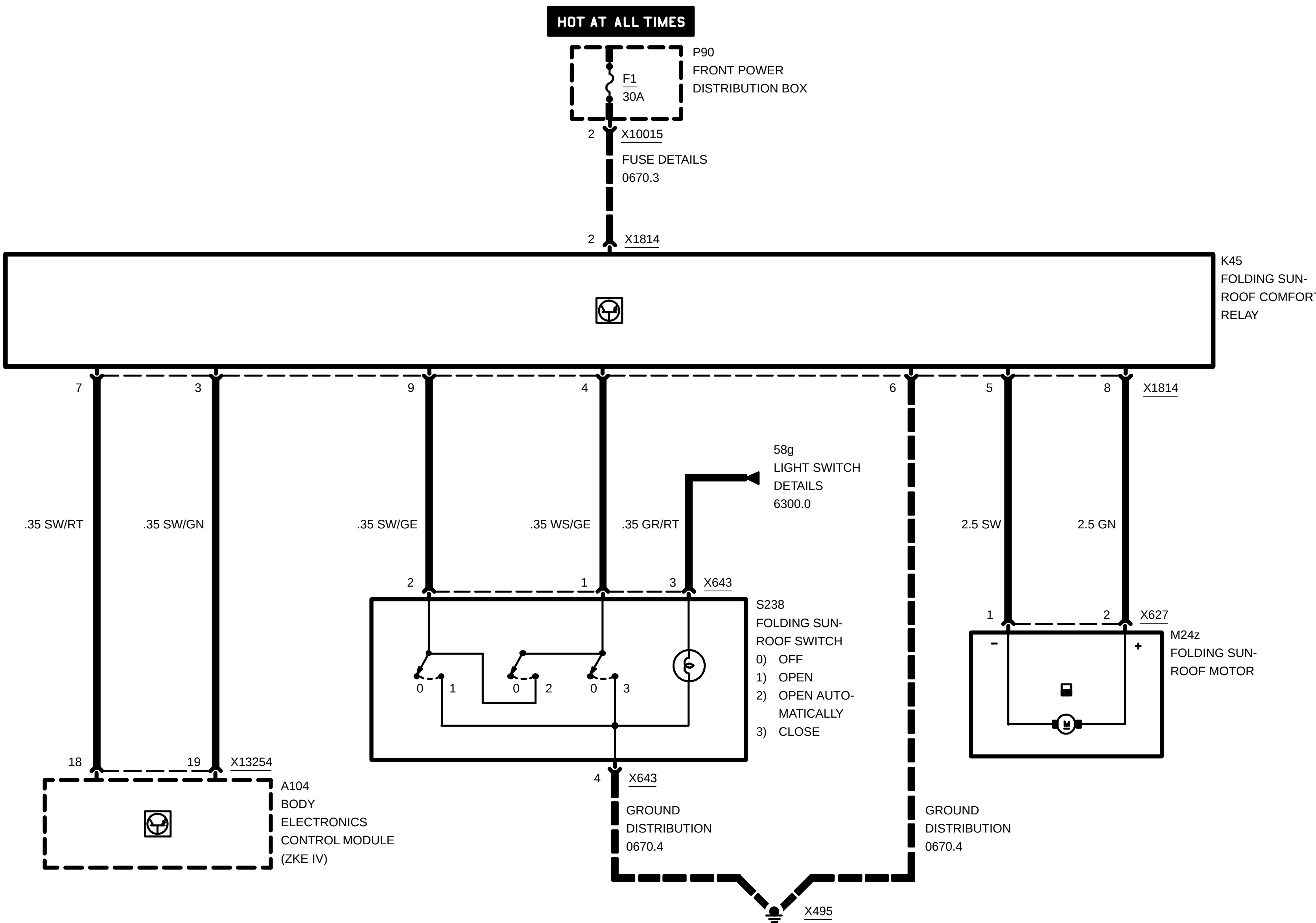


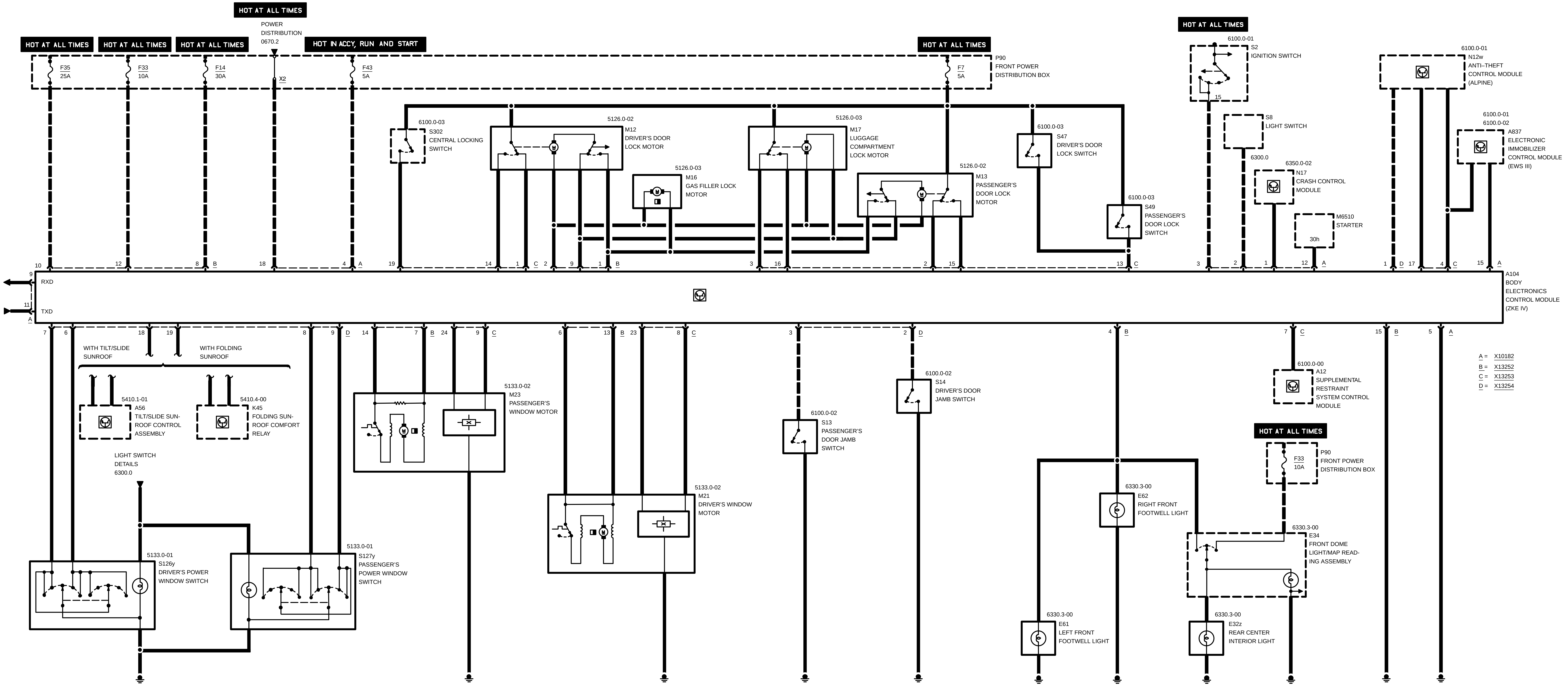


58g
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
.5 SW/GE
.5 WS/GE
3
2
1
X643
S38
TILT/SLIDE SUNROOF SWITCH
(SHD)
0) OFF
1) OPEN SLIDING SUNROOF/
LOWER TILT SUNROOF
2) CLOSE SLIDING SUNROOF/
RAISE TILT SUNROOF
3) CLOSE
4
X643
.5 BR
6
X13176
A56
TILT/SLIDE SUN-
ROOF CONTROL
ASSEMBLY
3
1
X13176
.35 SW/RT
.35 SW/GN
18
19
X13254
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)

BMW 3 compact

5410.4 ELECTRIC FOLDING SUNROOF




HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
HOT IN ACCY, RUN AND START
F35 25A
F33 10A
F14 30A
X2
F43 5A
F7 5A
P90 FRONT POWER DISTRIBUTION BOX
6100.0-01 S2 IGNITION SWITCH
6100.0-01 N12w ANTI–THEFT CONTROL MODULE (ALPINE)
6100.0-03 S302 CENTRAL LOCKING SWITCH
5126.0-02 M12 DRIVER'S DOOR LOCK MOTOR
5126.0-03 M16 GAS FILLER LOCK MOTOR
5126.0-03 M17 LUGGAGE COMPARTMENT LOCK MOTOR
5126.0-02 M13 PASSENGER'S DOOR LOCK MOTOR
6100.0-03 S47 DRIVER'S DOOR LOCK SWITCH
6100.0-03 S49 PASSENGER'S DOOR LOCK SWITCH
S8 LIGHT SWITCH
6300.0
6350.0-02 N17 CRASH CONTROL MODULE
M6510 STARTER
30h
6100.0-01 6100.0-02 A837 ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)
RXD
TXD
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
WITH TILT/SLIDE SUNROOF
WITH FOLDING SUNROOF
5410.1-01 A56 TILT/SLIDE SUN-ROOF CONTROL ASSEMBLY
5410.4-00 K45 FOLDING SUN-ROOF COMFORT RELAY
LIGHT SWITCH DETAILS 6300.0
5133.0-01 S126y DRIVER'S POWER WINDOW SWITCH
5133.0-01 S127y PASSENGER'S POWER WINDOW SWITCH
5133.0-02 M23 PASSENGER'S WINDOW MOTOR
5133.0-02 M21 DRIVER'S WINDOW MOTOR
6100.0-02 S13 PASSENGER'S DOOR JAMB SWITCH
6100.0-02 S14 DRIVER'S DOOR JAMB SWITCH
6330.3-00 E62 RIGHT FRONT FOOTWELL LIGHT
6330.3-00 E61 LEFT FRONT FOOTWELL LIGHT
6100.0-00 A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
F33 10A
P90 FRONT POWER DISTRIBUTION BOX
6330.3-00 E34 FRONT DOME LIGHT/MAP READ-ING ASSEMBLY
6330.3-00 E32z REAR CENTER INTERIOR LIGHT
A = X10182
B = X13252
C = X13253
D = X13254

Pin Assignments

A = X10182	18-Pins, black
B = X13252	15-Pins, black
C = X13253	26-Pins, yellow
D = X13254	26-Pins, green

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3	E	Ignition switch, terminal 15	Ignition switch, terminal 15
4	E	Power supply	Front power distribution box, fuse 43
5	M	Ground	Ground point
6		Not used	
7		Not used	
8		Not used	
9	A	Diagnosis RxD-signal	Data link connector
10		Not used	
11	E/A	Diagnosis TxD-signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive-away protection	Electronic immobilizer control module (EWS III)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	A	Central arrest signal	Lock motors
2	A	Unlock signal	Lock motors
3		Not used	
4	A	Automatic interior light voltage supply	Interior lights
5		Not used	
6	A	Voltage supply	Power window motor, driver’s door
7	A	Voltage supply	Power window motor, passenger’s door
8	E	Power supply	Front power distribution box, fuse 14
9	A	Lock signal	Lock motors
10	E	Power supply	Front power distribution box, fuse 35
11		Not used	
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor, driver’s door
14	E	Motor signal	Power window motor, passenger’s door
15	M	Ground	Ground point

X13253

Pin	Type	Description/Function	Connection
1	E	Unlock signal	Door lock motor, driver’s door
2	E	Unlock signal	Door lock motor, passenger’s door
3	E	Unlock signal	Luggage compartment motor
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	A	Crash signal	Supplemental restraint system control module
8	E	Revolution signal	Power window motor, driver’s door
9	E	Revolution signal	Power window motor, passenger’s door
10		Not used	

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal	Door lock motor, driver’s door
15	E	Lock signal	Door lock motor, passenger’s door
16	E	Lock signal	Luggage compartment motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19	E	Lock signal	Central locking switch
20		Not used	
21		Not used	
22		Not used	
23	A	Voltage supply (revolution)	Driver’s window motor
24	A	Voltage supply (revolution)	Passenger’s window motor
25		Not used	
26		Not used	

X13254

Pin	Type	Description/Function	Connection
1	E	Door handle contact	Anti-theft system control module (Alpine)
2	E	Door signal	Door jamb switch, driver’s door
3	E	Door signal	Door jamb switch, passenger’s door
4		Not used	
5		Not used	
6	E	OPEN signal	Power window switch, driver’s door
7	E	CLOSE signal	Power window switch, driver’s door
8	E	OPEN signal	Power window switch, passenger’s door
9	E	CLOSE signal	Power window switch, passenger’s door
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

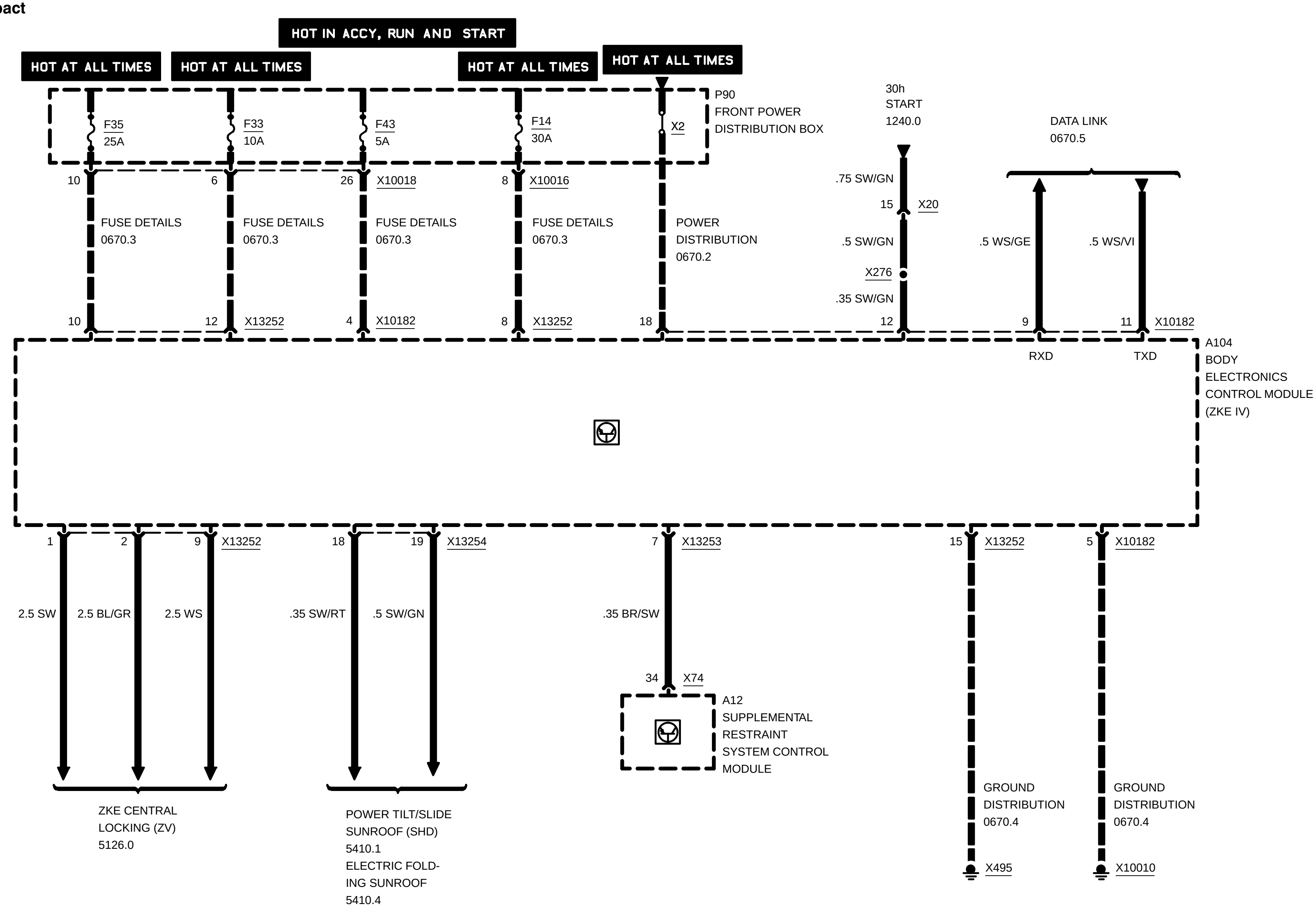
Pin Assignments

Pin	Type	Description/Function	Connection
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18	A	Comfortable closing	Sunroof control assembly/Comfort relay, Folding sunroof
19	A	Folding sunroof release	Sunroof control assembly/Comfort relay, Folding sunroof
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

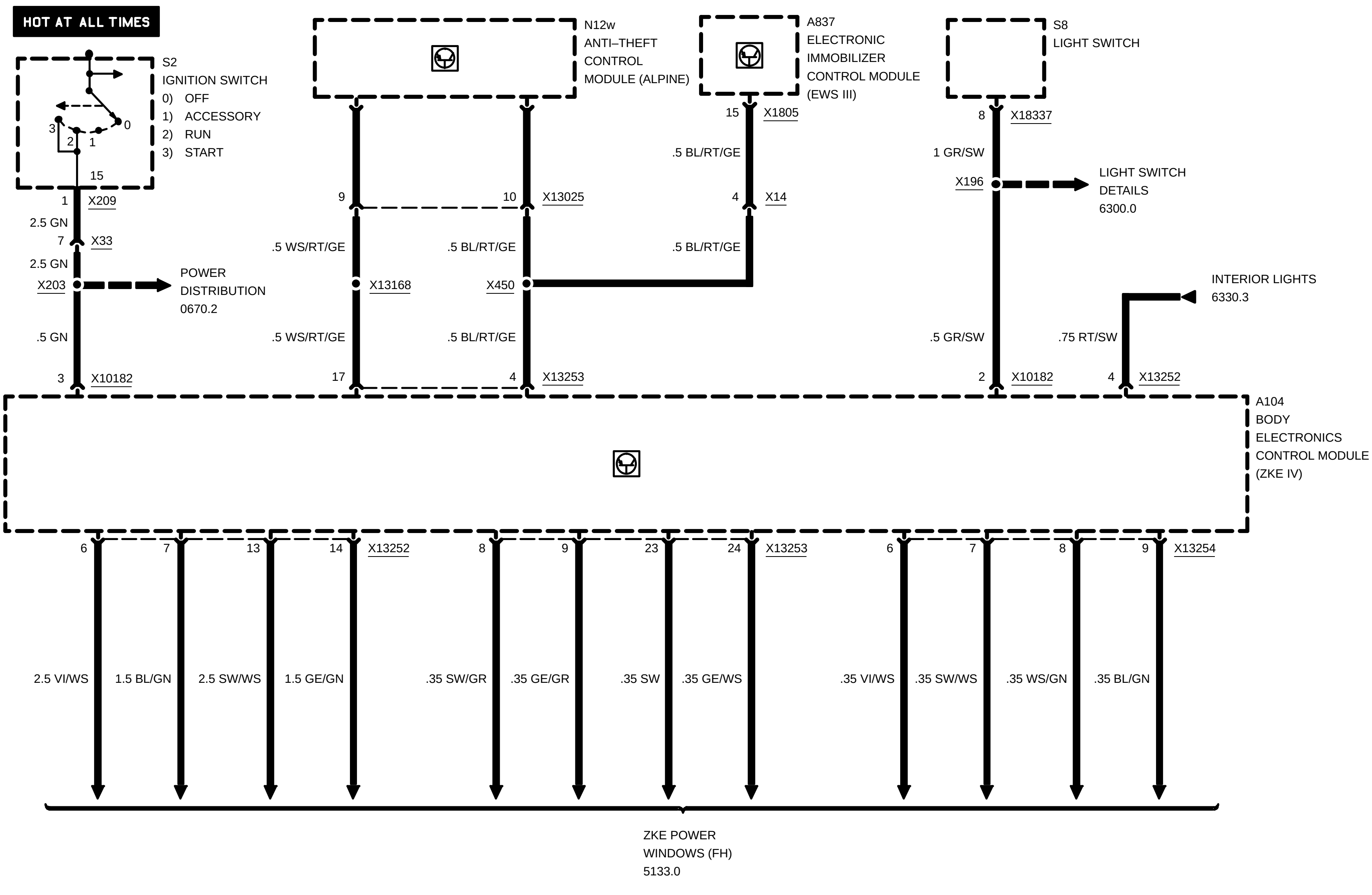
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CENTRAL BODY ELECTRONICS (ZKE IV)

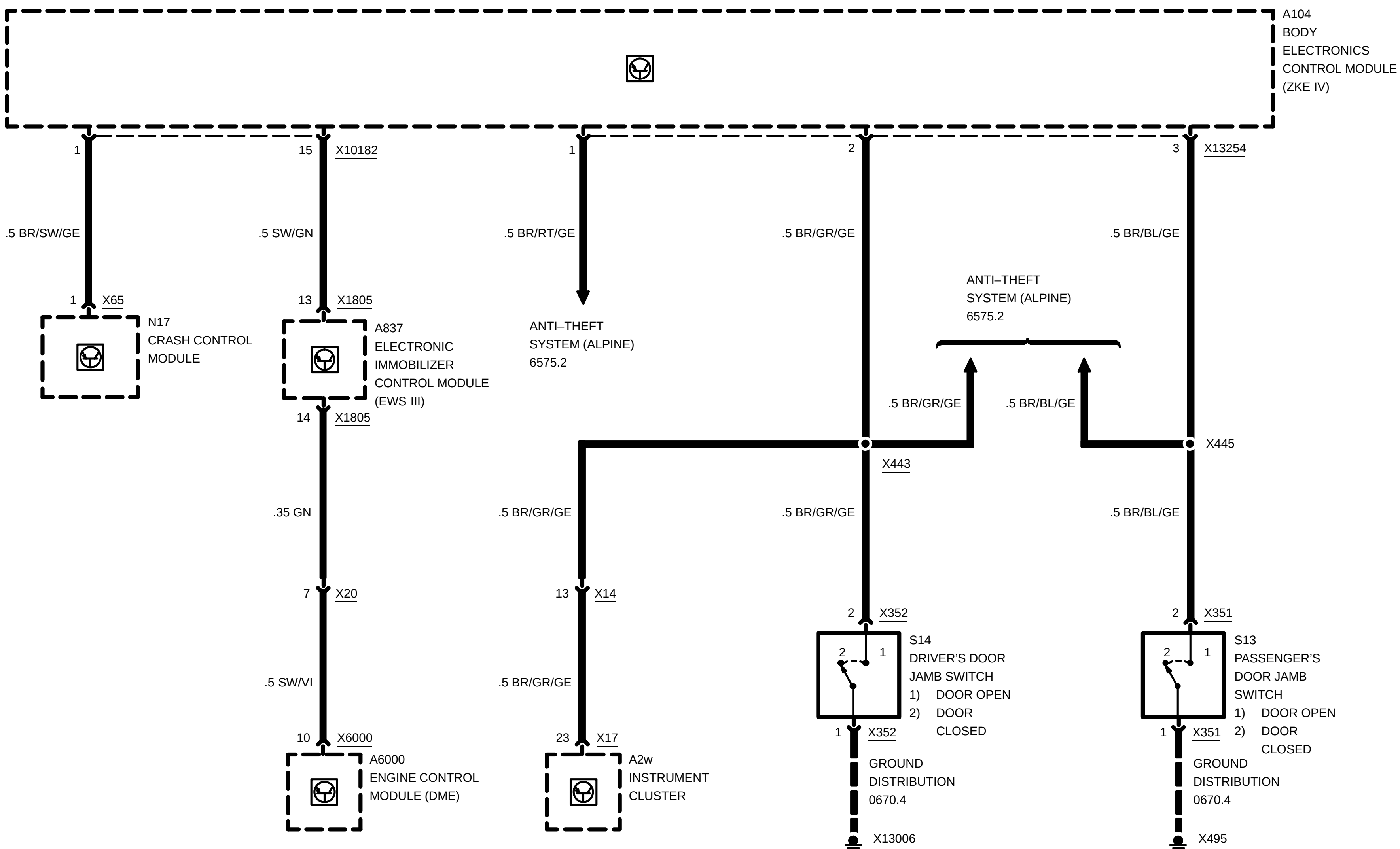


CENTRAL BODY ELECTRONICS (ZKE IV)

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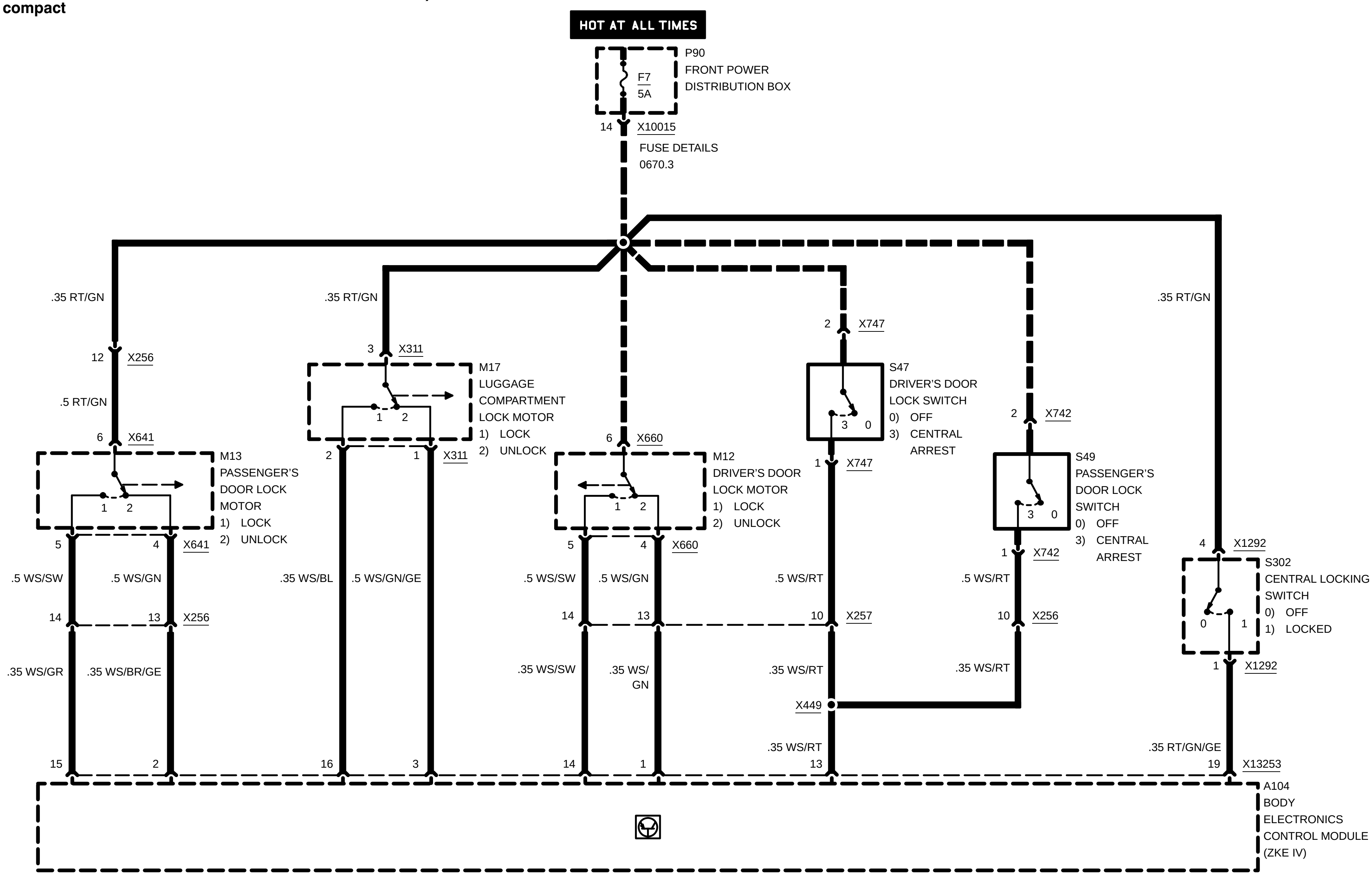
CENTRAL BODY ELECTRONICS (ZKE IV)



BMW 3 compact

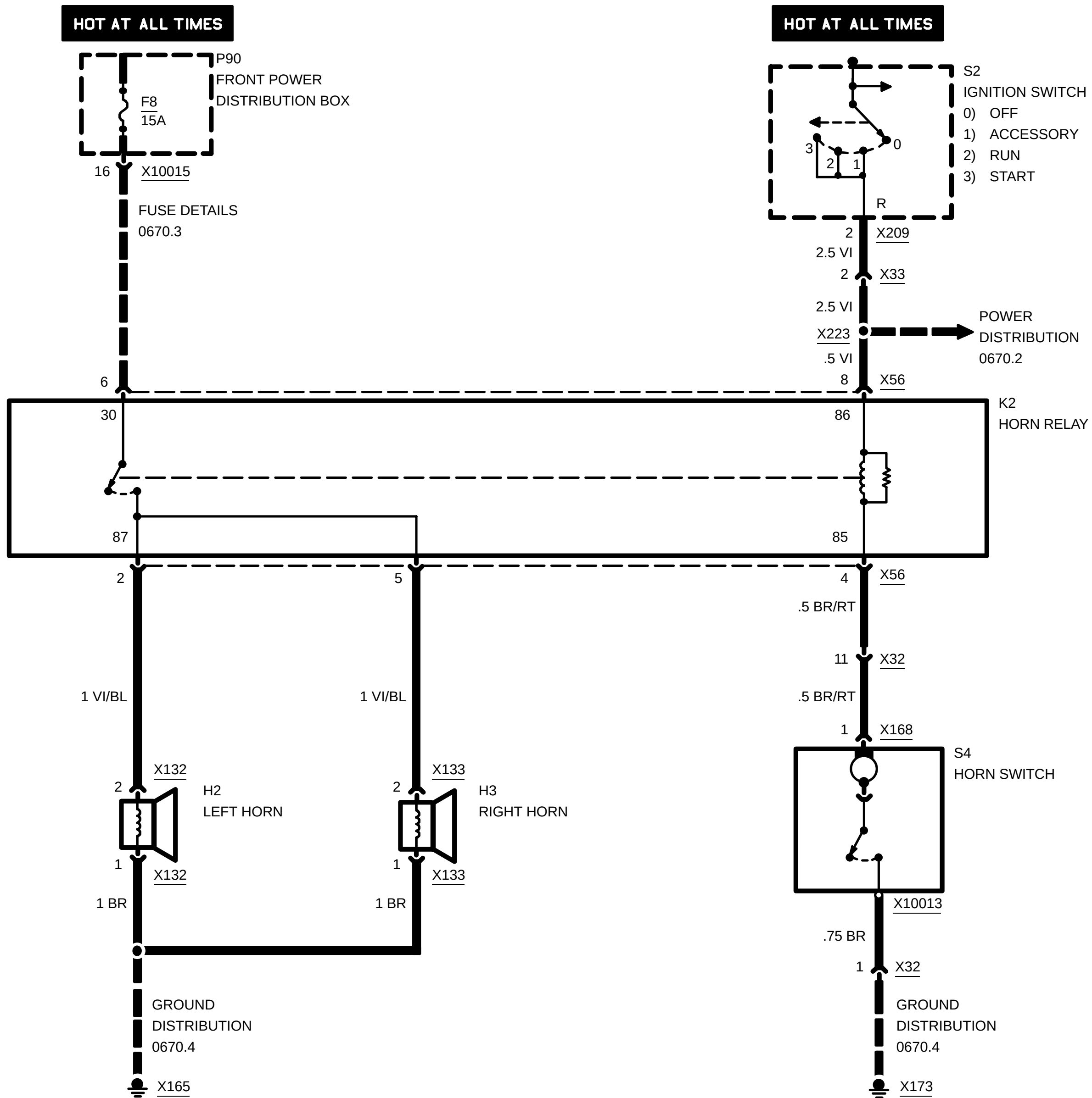
CENTRAL BODY ELECTRONICS (ZKE IV)

LUGGAGE COMPARTMENT LID, DRIVER'S AND PASSENGER'S DOOR INPUT SIGNALS



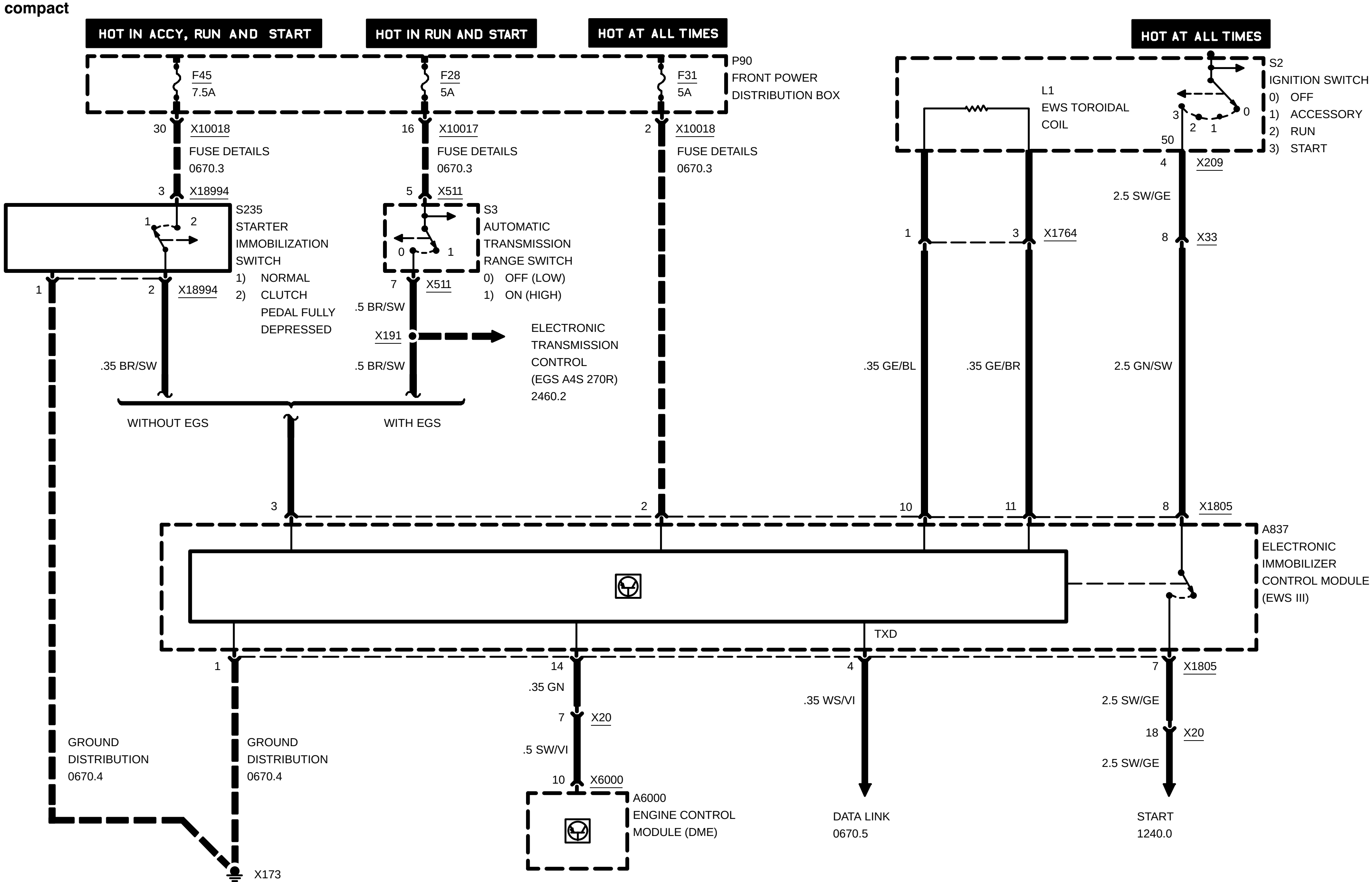
BMW 3 compact

6133.0 HORN

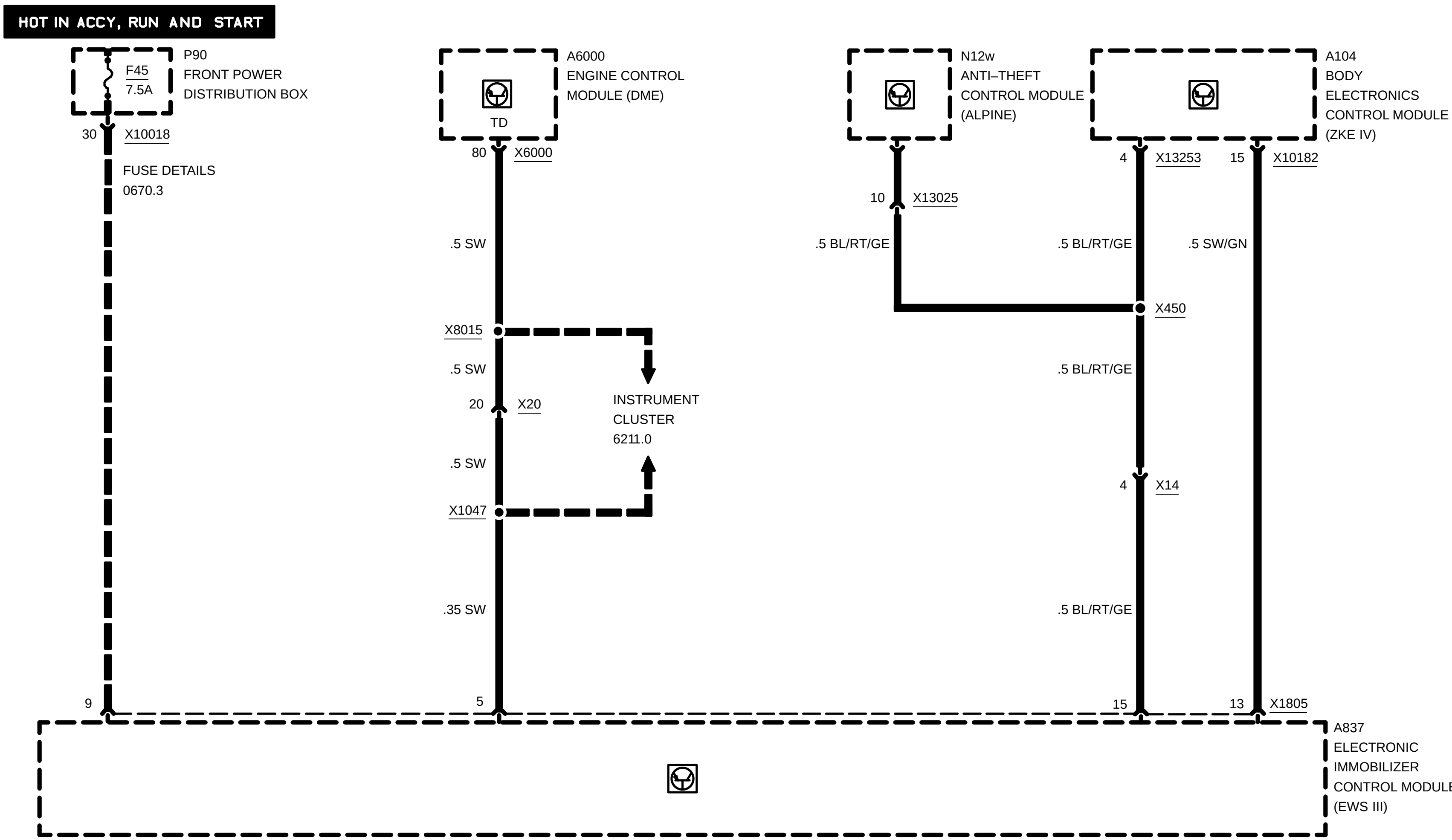


6135.1 DRIVE–AWAY PROTECTION (EWS III)

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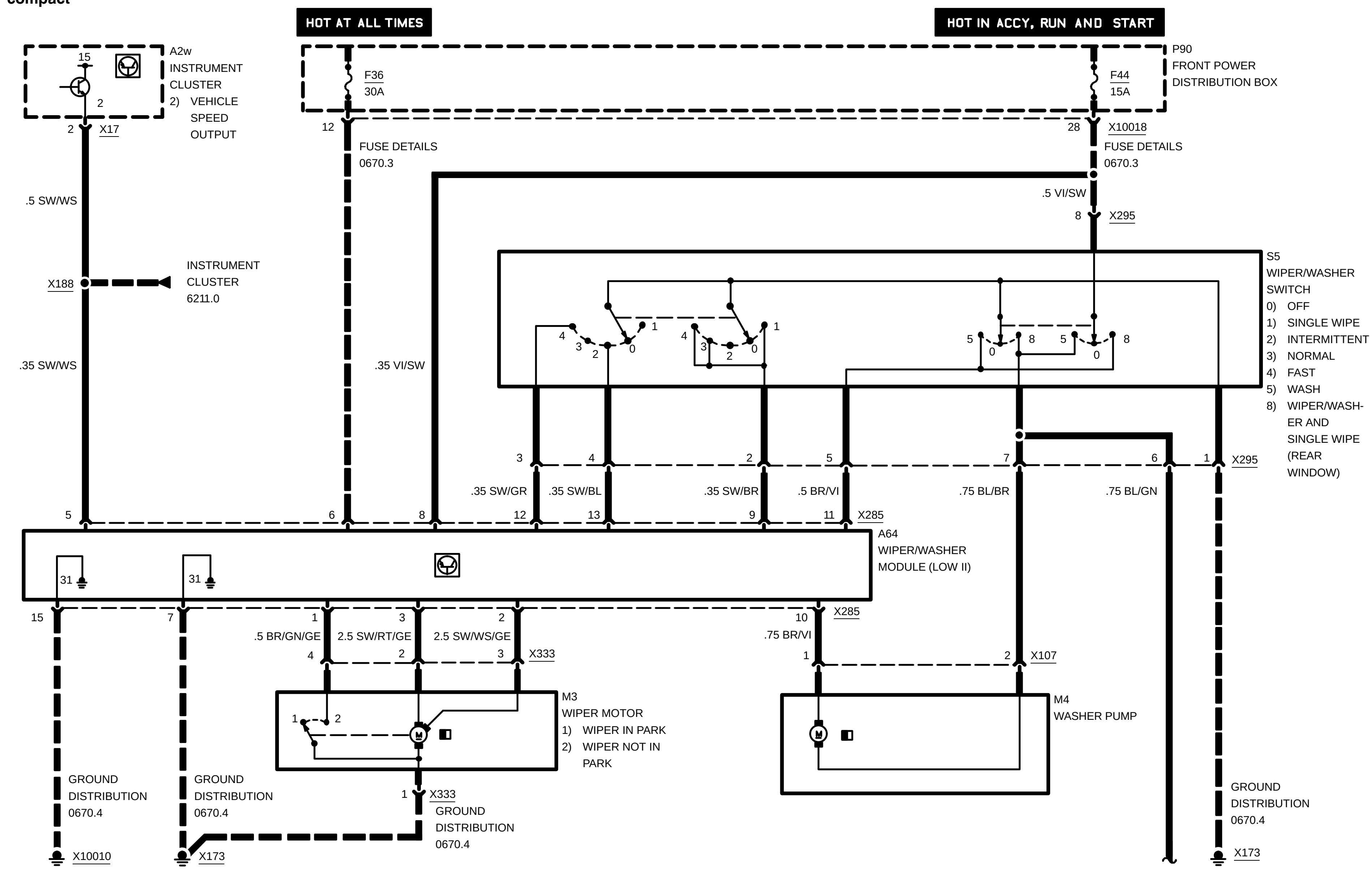
DRIVE–AWAY PROTECTION (EWS III)

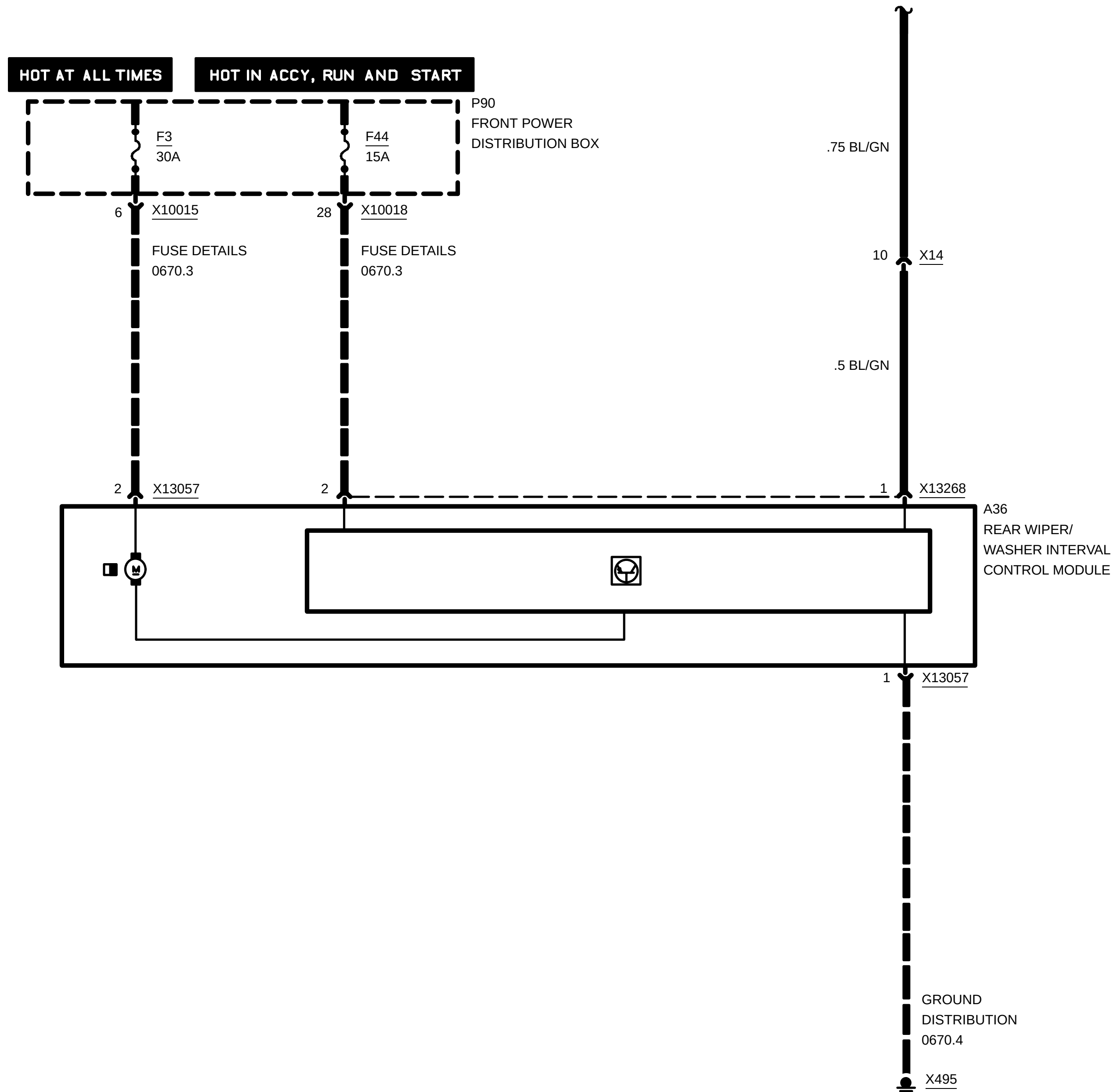


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6160.1 WIPER/WASHER MODULE (WWM)

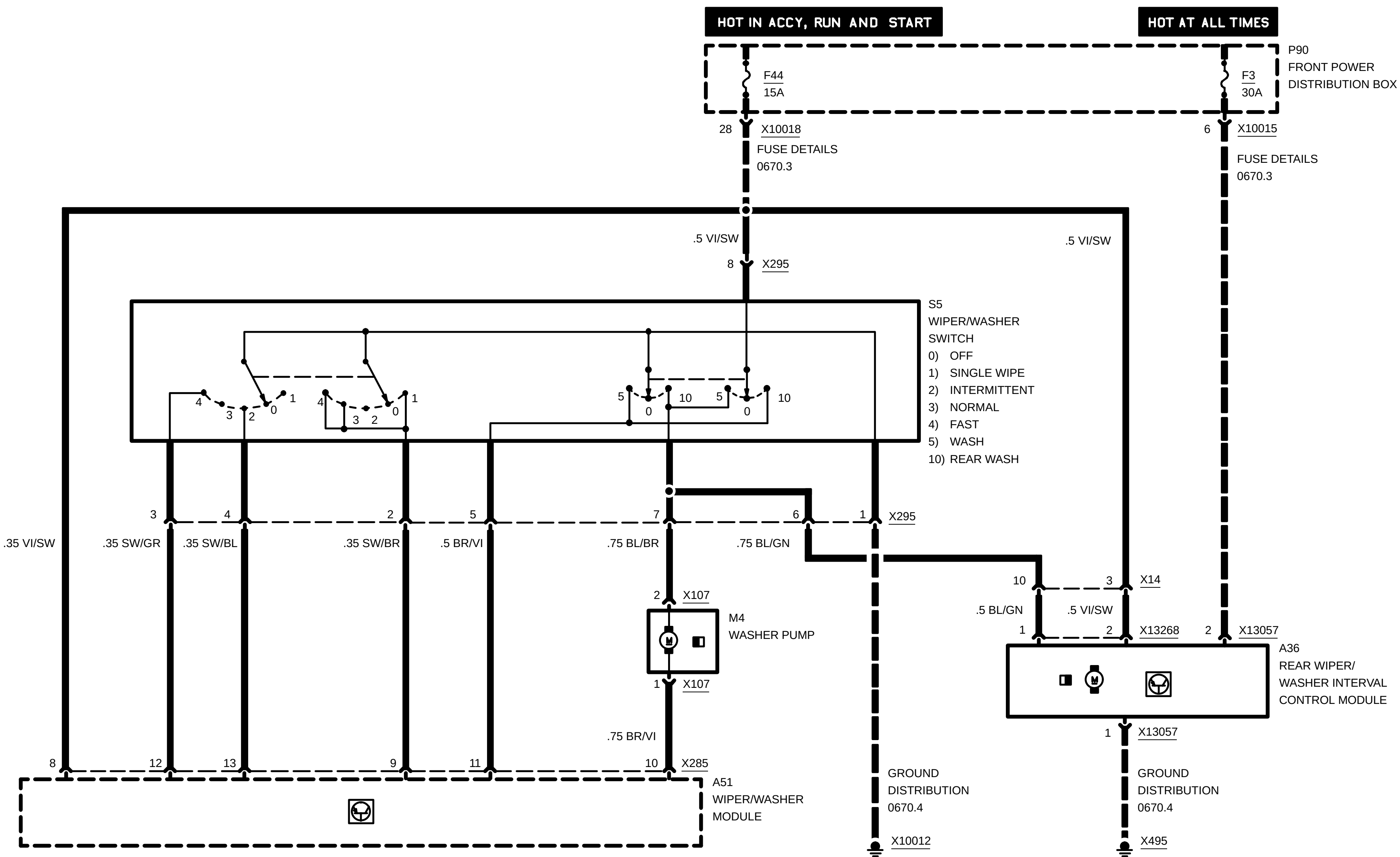
WIPER/WASHER (LOW)




HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F3
30A
F44
15A
6
X10015
28
X10018
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
.75 BL/GN
10
X14
.5 BL/GN
2
X13057
2
1
X13268
A36
REAR WIPER/
WASHER INTERVAL
CONTROL MODULE
1
X13057
GROUND
DISTRIBUTION
0670.4
X495

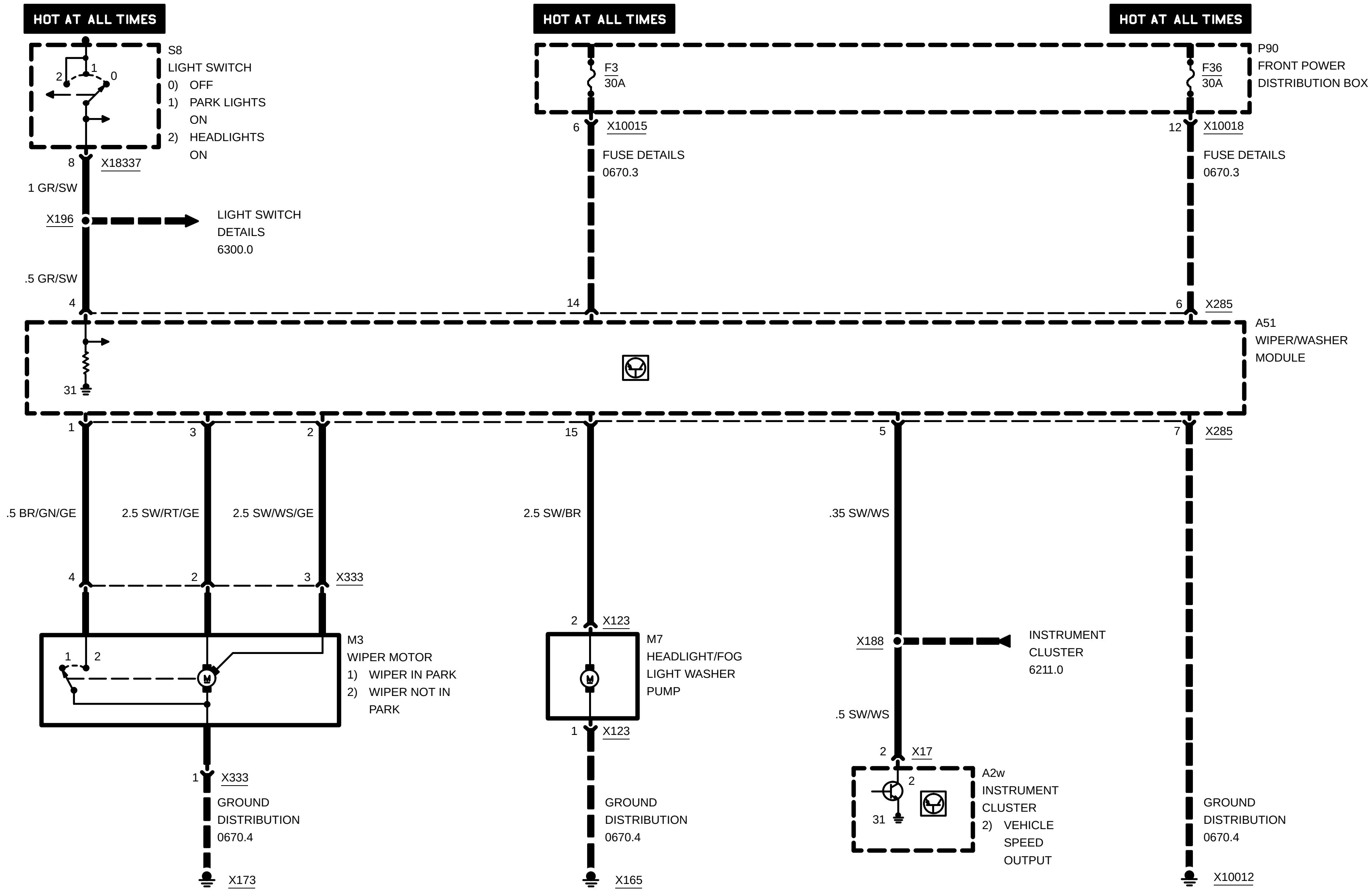
WIPER/WASHER MODULE (WWM)

WIPER/WASHER (HIGH)

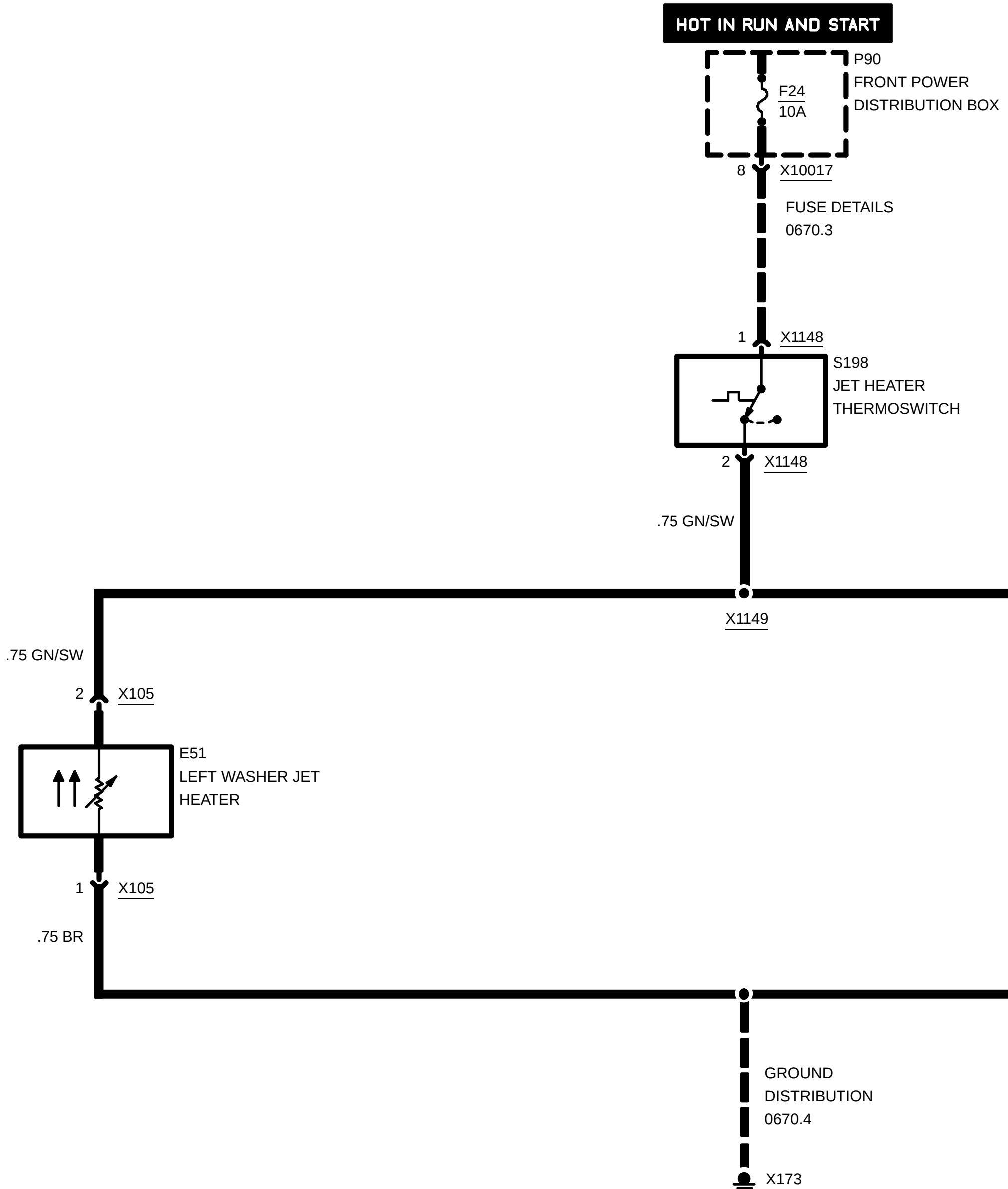


WIPER/WASHER MODULE (WWM)

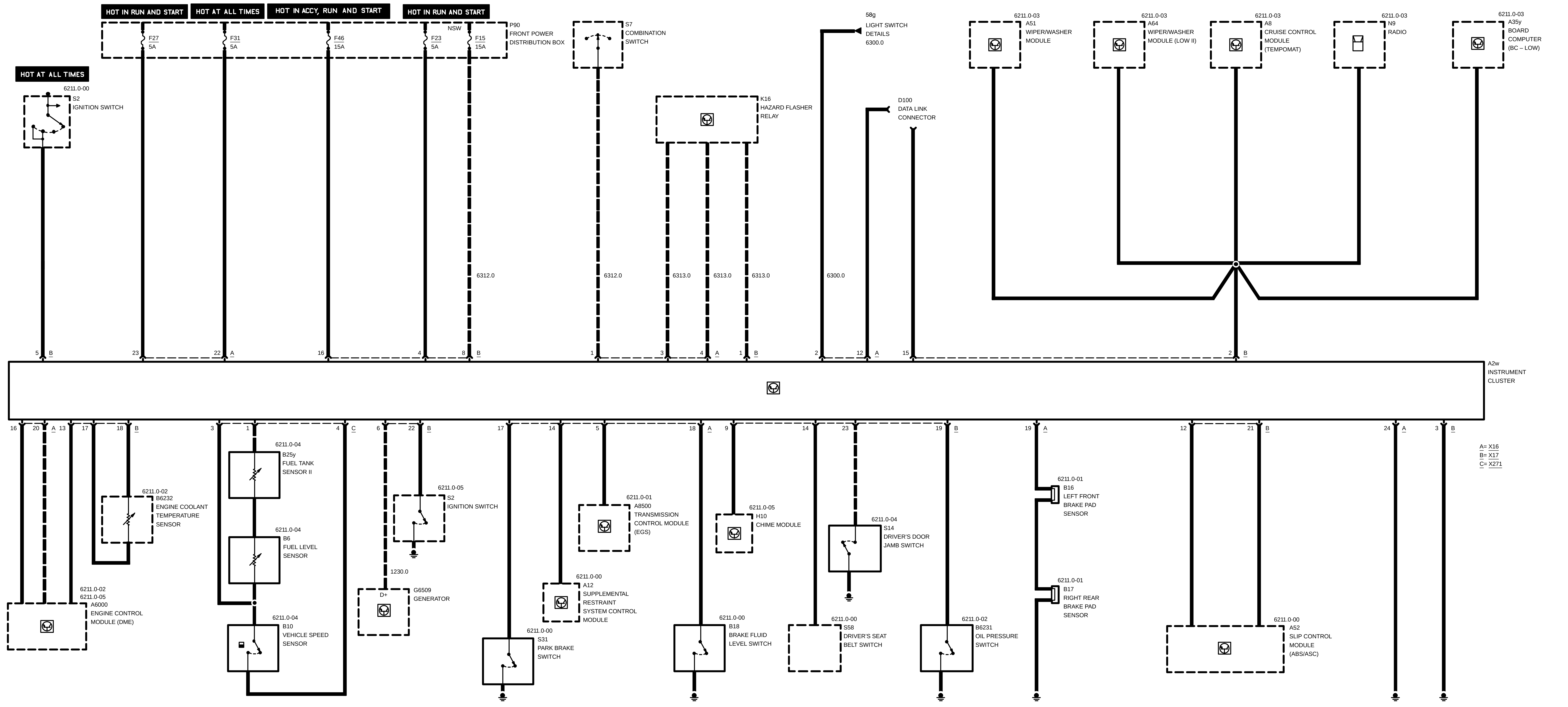
WIPER/WASHER (HIGH)



6169.0 WINDSHIELD WASHER JET HEATERS



6211.0 INSTRUMENT CLUSTER



Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12	E/A	TxD diagnostic data link	Data link connector
13		Not used	
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	“Check engine” indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21		Not used	
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10		Not used	
11		Not used	
12	E	ASC signal	ASC control module
13	A	TI-measurement signal (fuel consumption)	Engine control module (DME)
14	E	Seat belt warning lamp control	Driver’s seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution box, fuse 46
17	A	Coolant temperature sensor (–)	Coolant temperature sensor
18	E	Coolant temperature sensor (+)	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	E	ABS warning lamp (ABS)	ABS control module/hydraulic unit/slip control module (ABS/ASC)
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver’s door open	Driver’s door jamb switch
24		Not used	

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26		Not used	

X271

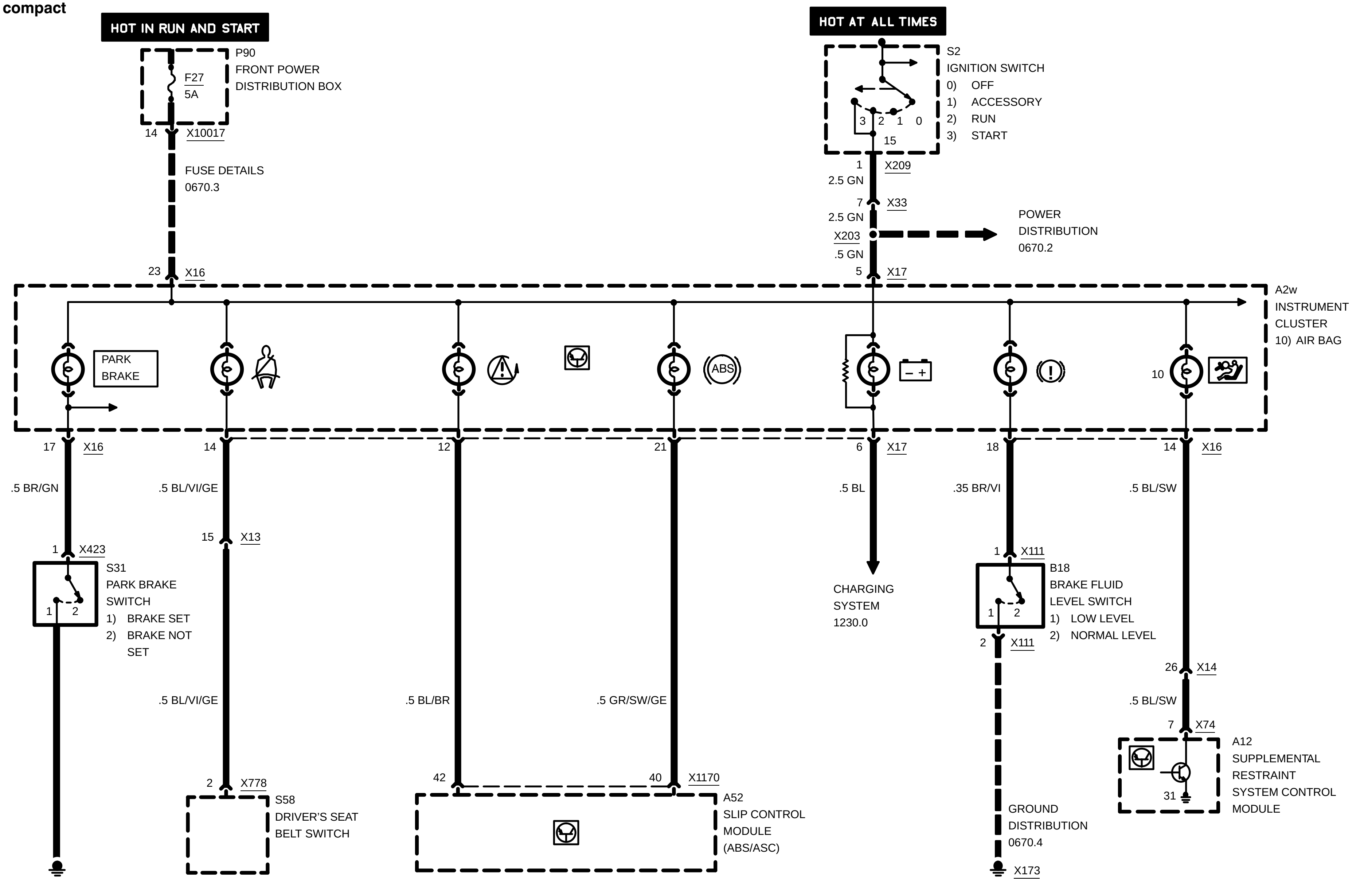
Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

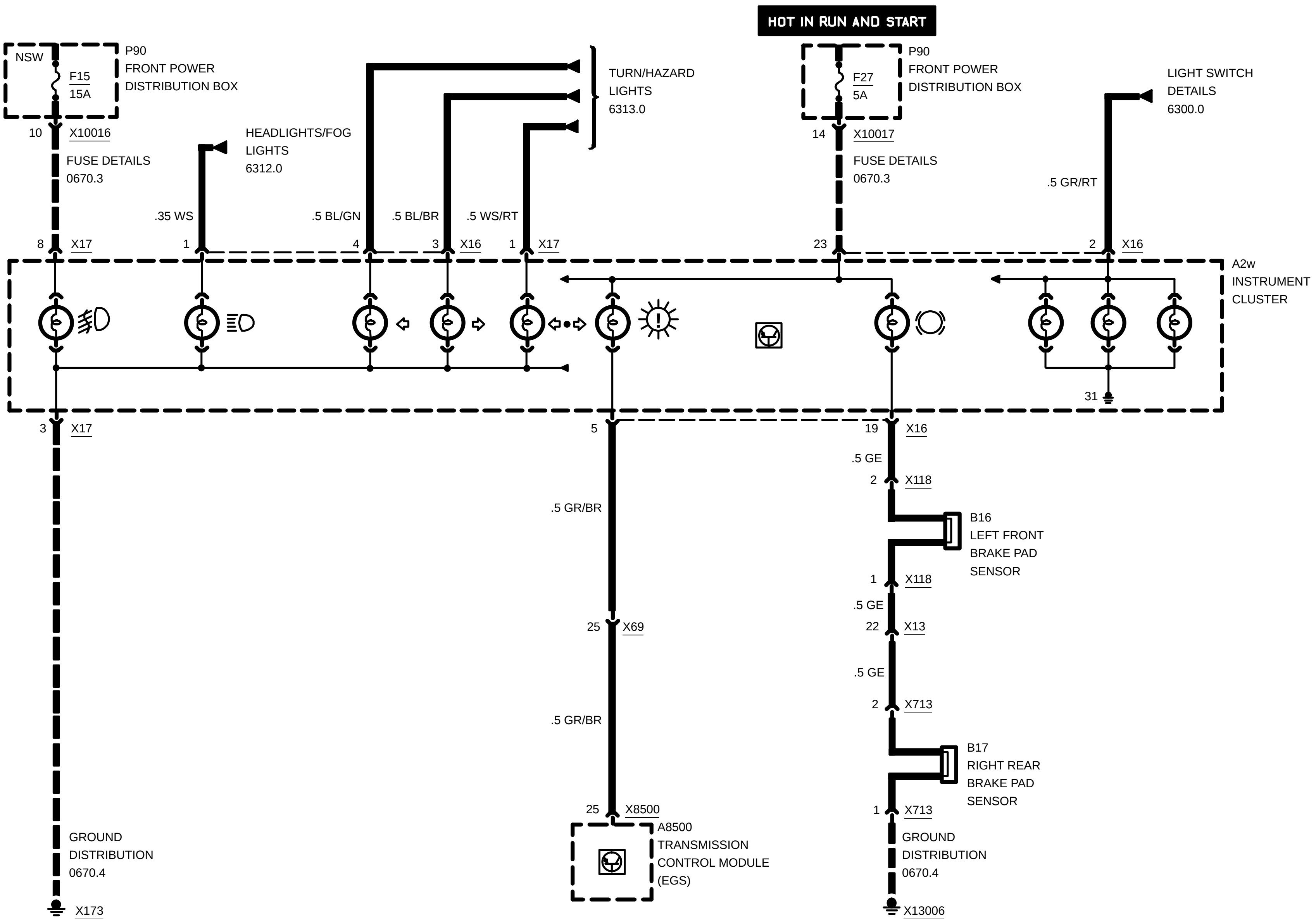
BMW 3 compact

INSTRUMENT CLUSTER

INDICATORS



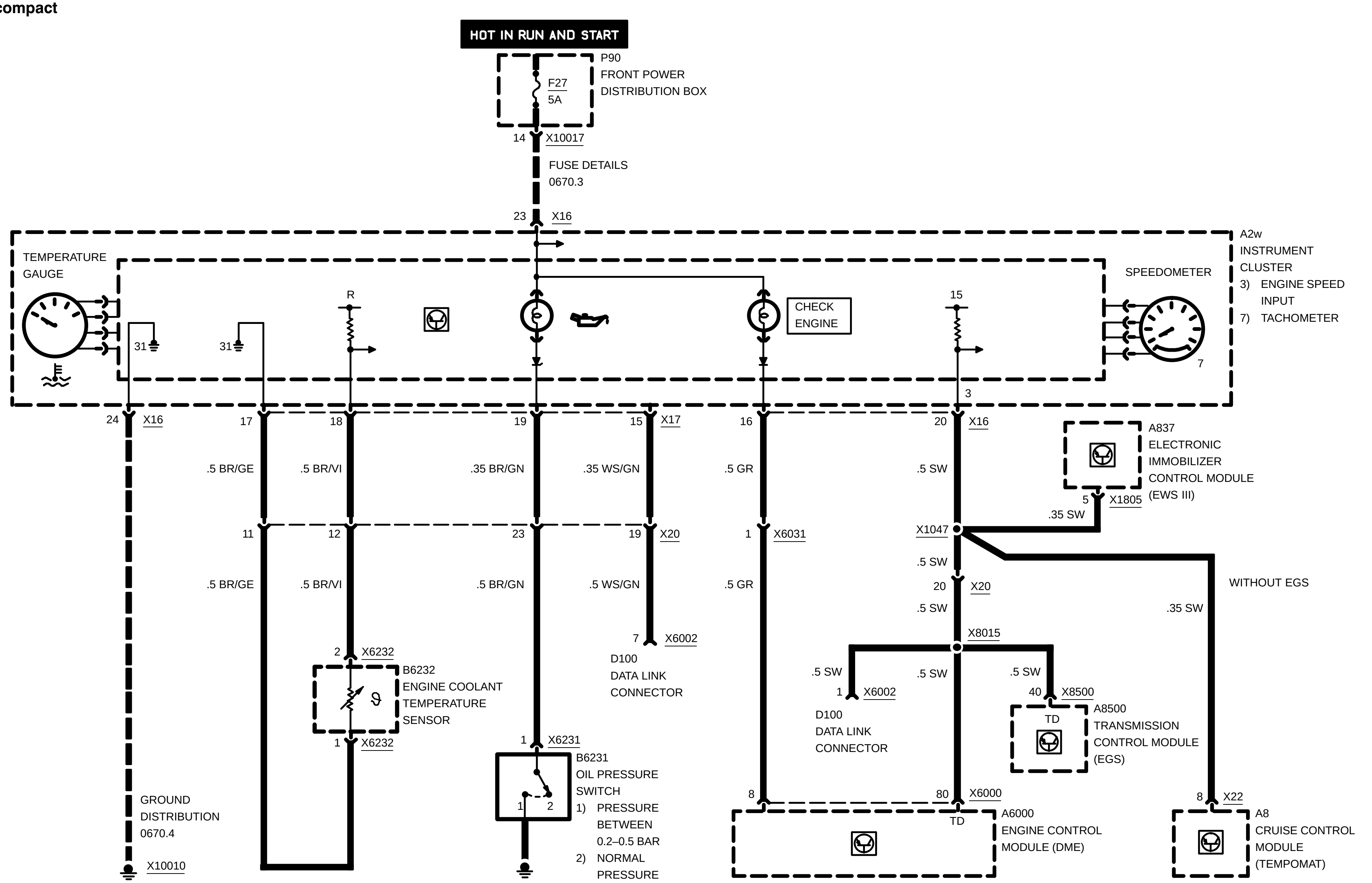
INSTRUMENT CLUSTER
INDICATORS



BMW 3 compact

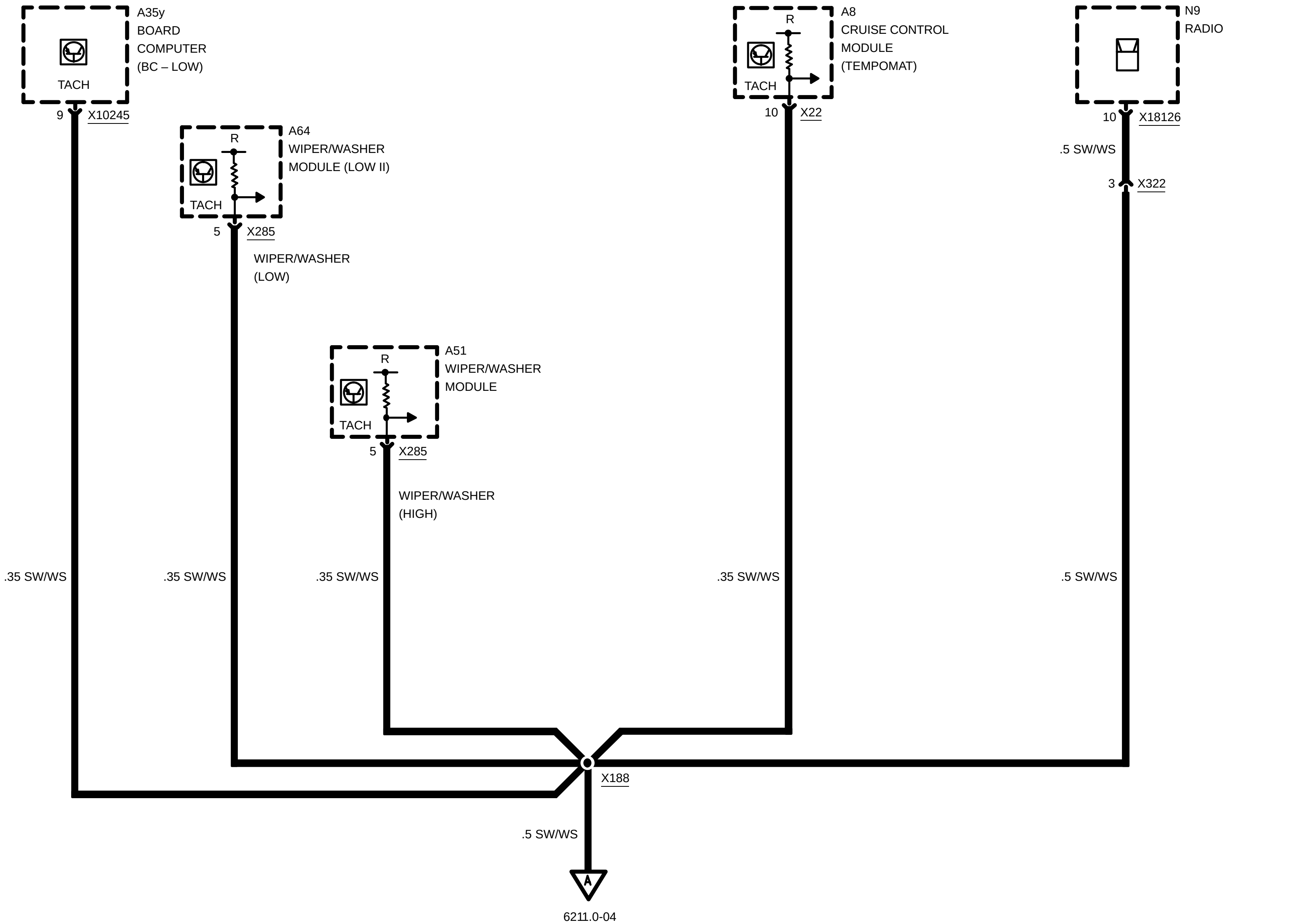
INSTRUMENT CLUSTER

INDICATORS



INSTRUMENT CLUSTER

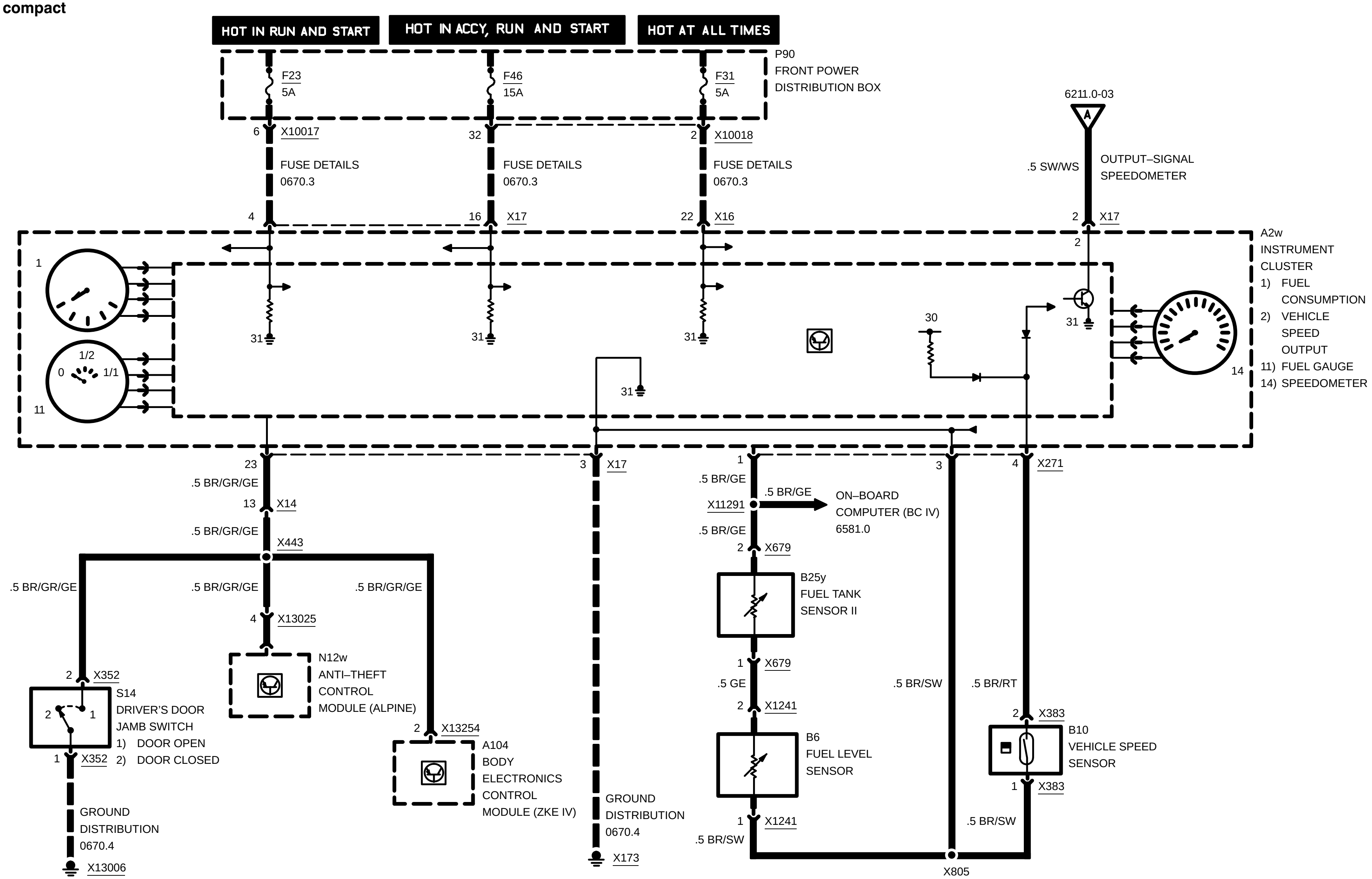
SIGNAL–OUTPUT SPEEDOMETER



BMW 3 compact

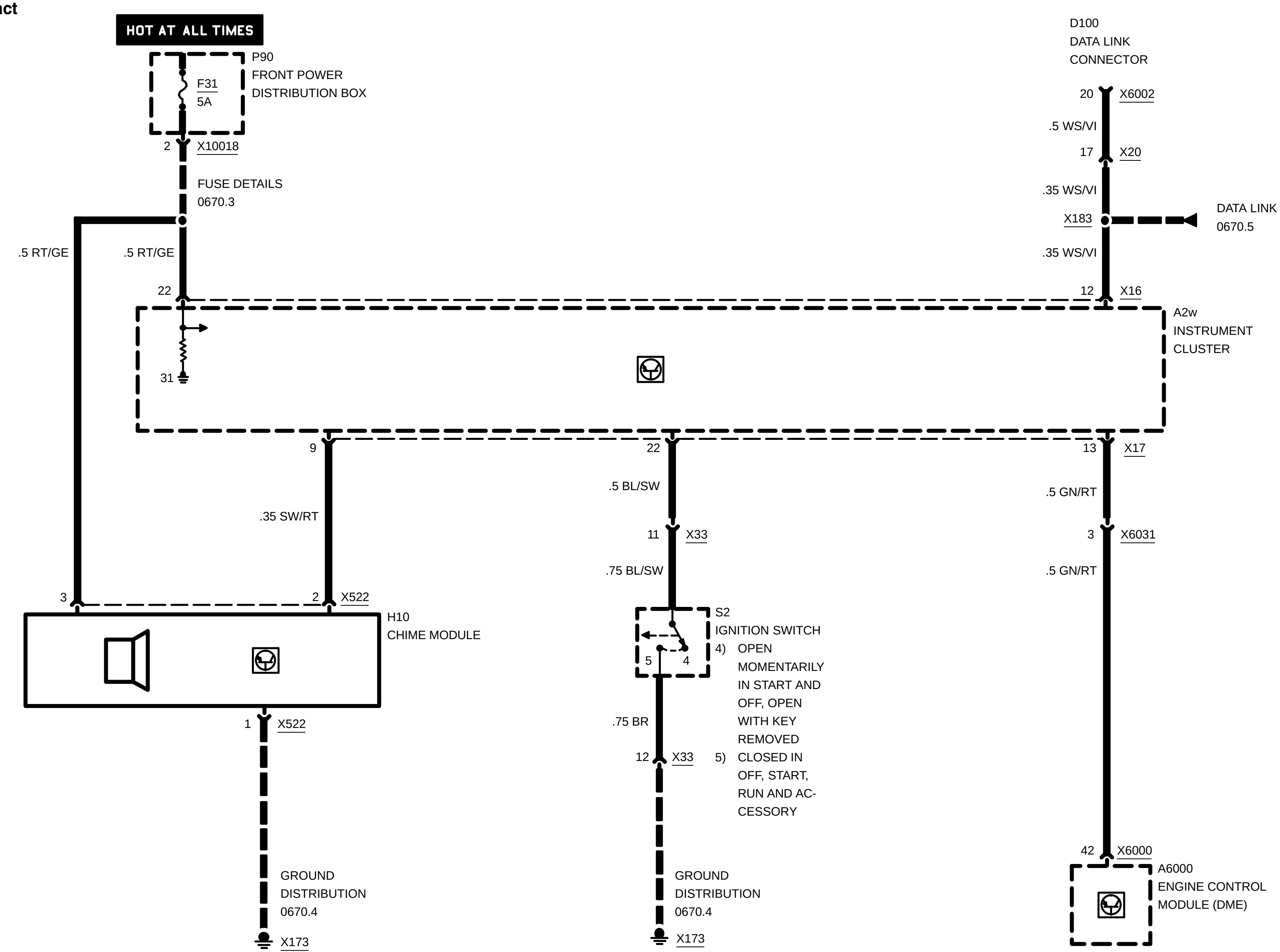
INSTRUMENT CLUSTER

INDICATORS



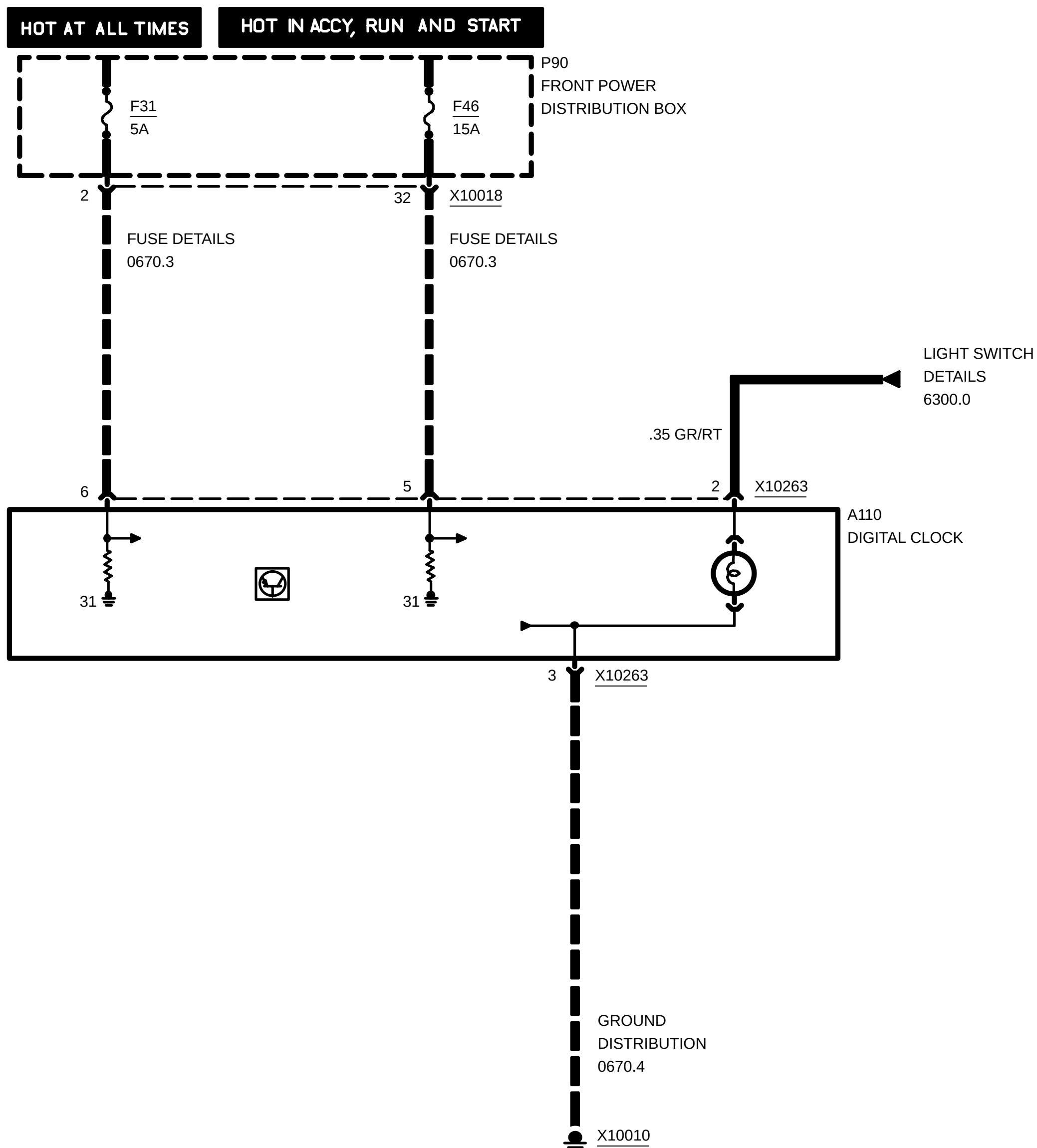
BMW 3 compact

INSTRUMENT CLUSTER



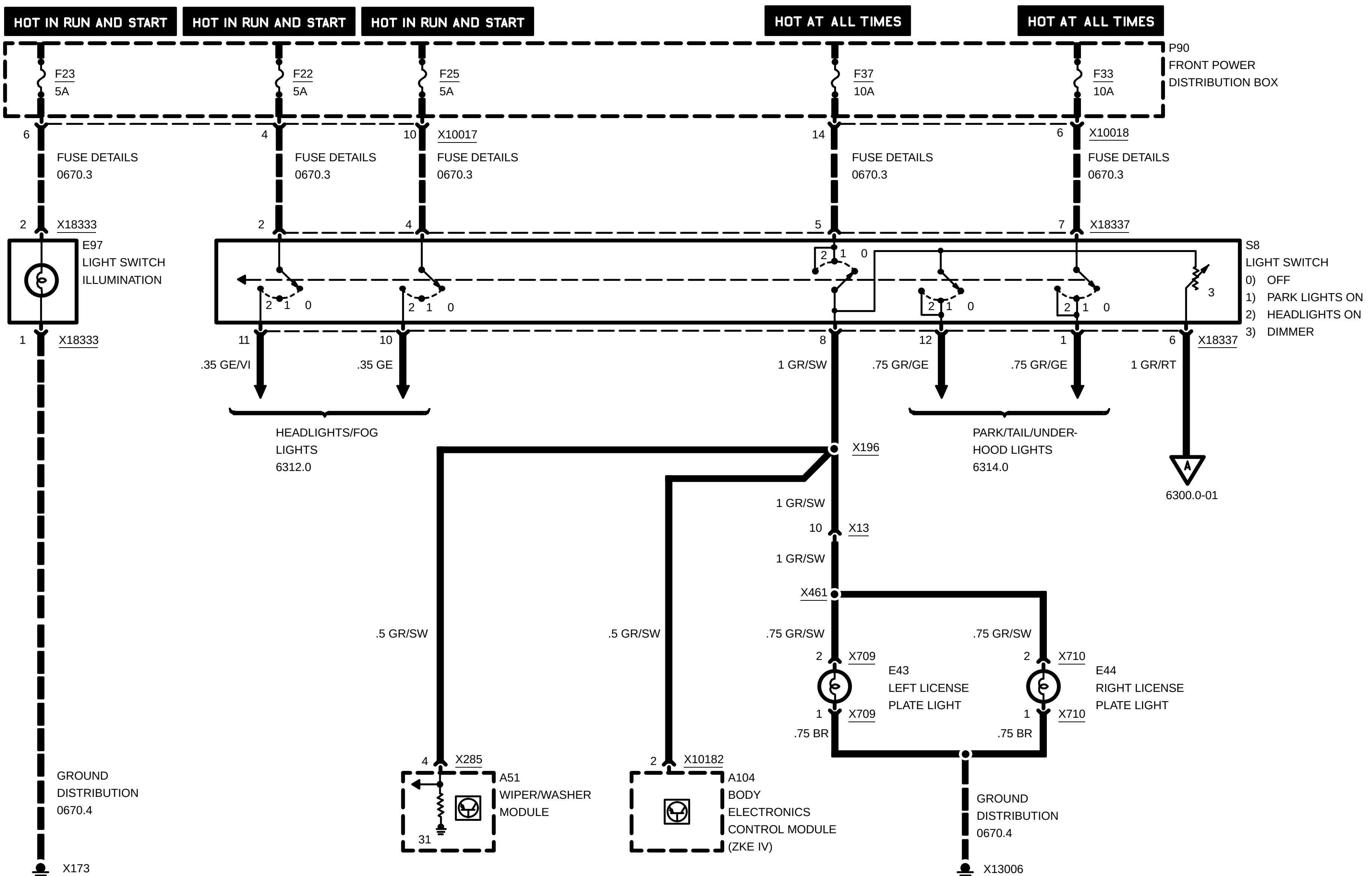
BMW 3 compact

6213.0 CLOCK

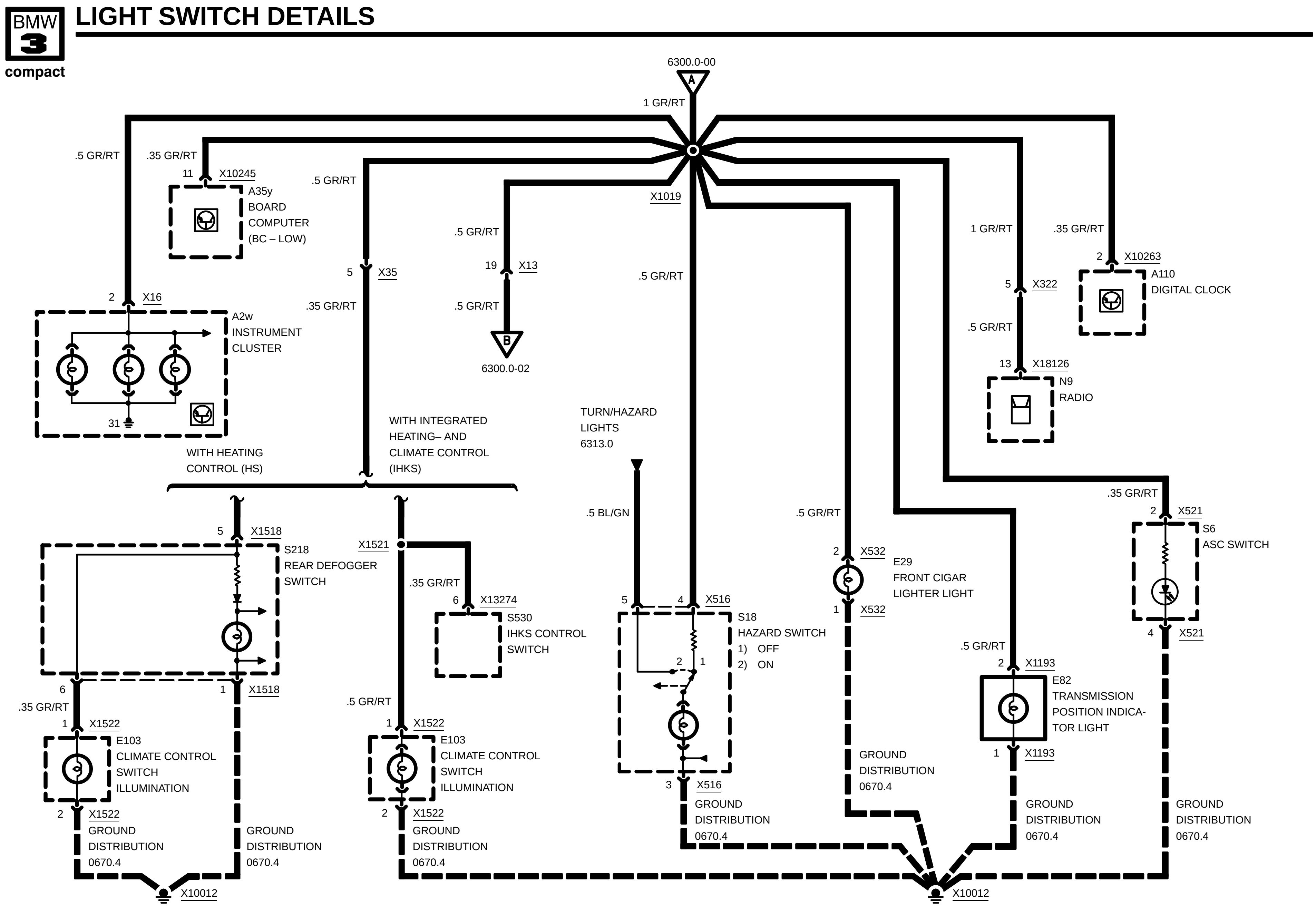


BMW 3 compact

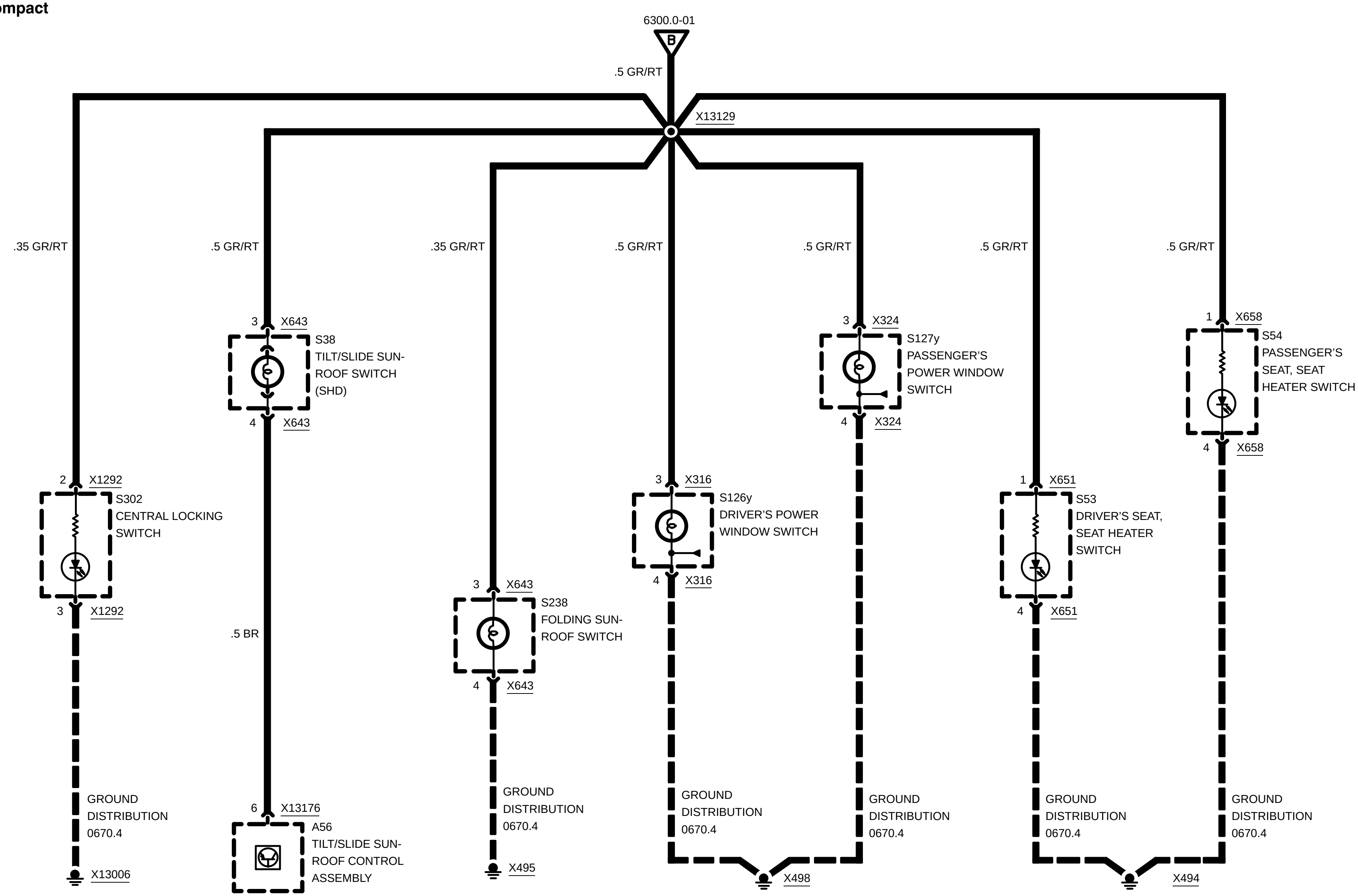
6300.0 LIGHT SWITCH DETAILS



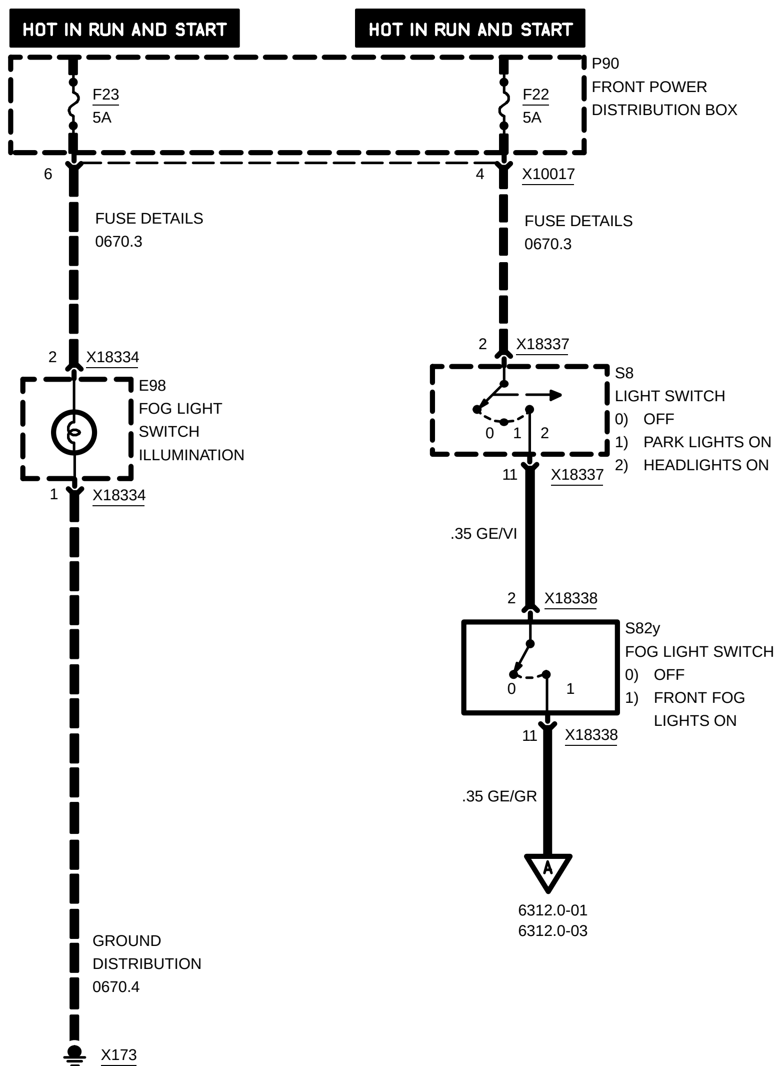
LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

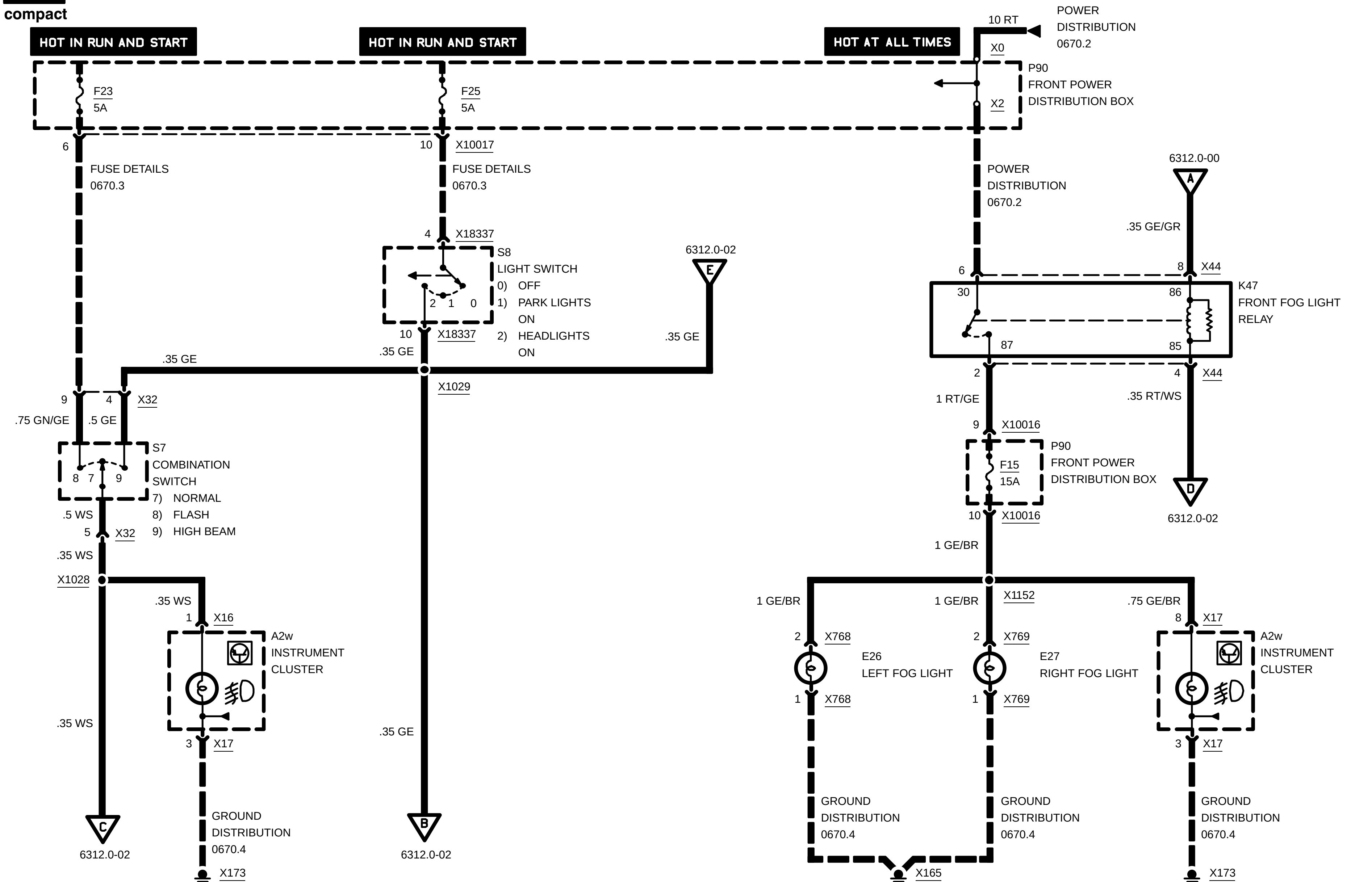


6312.0 HEADLIGHTS/FOG LIGHTS



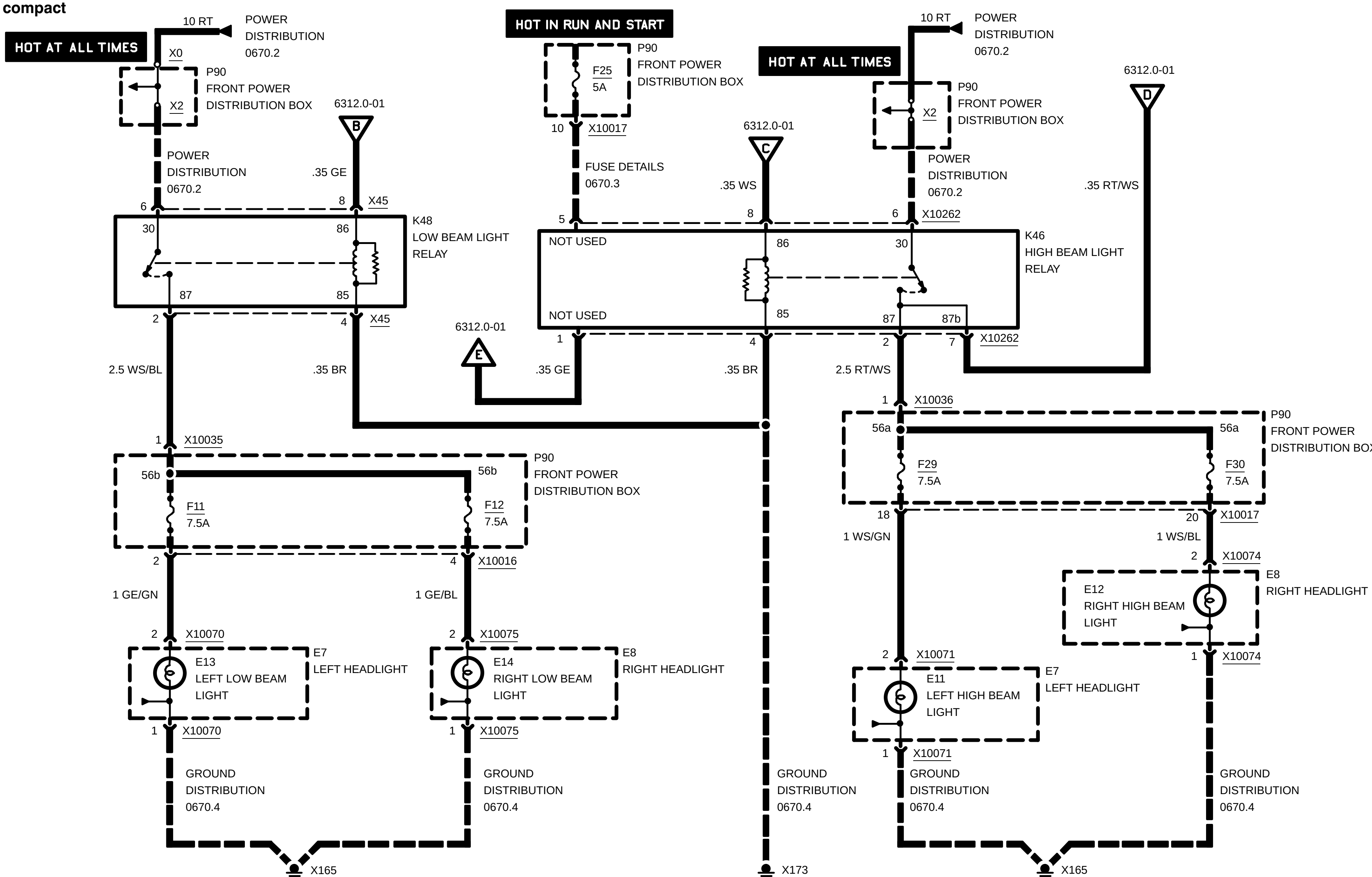
HEADLIGHTS/FOG LIGHTS

USA



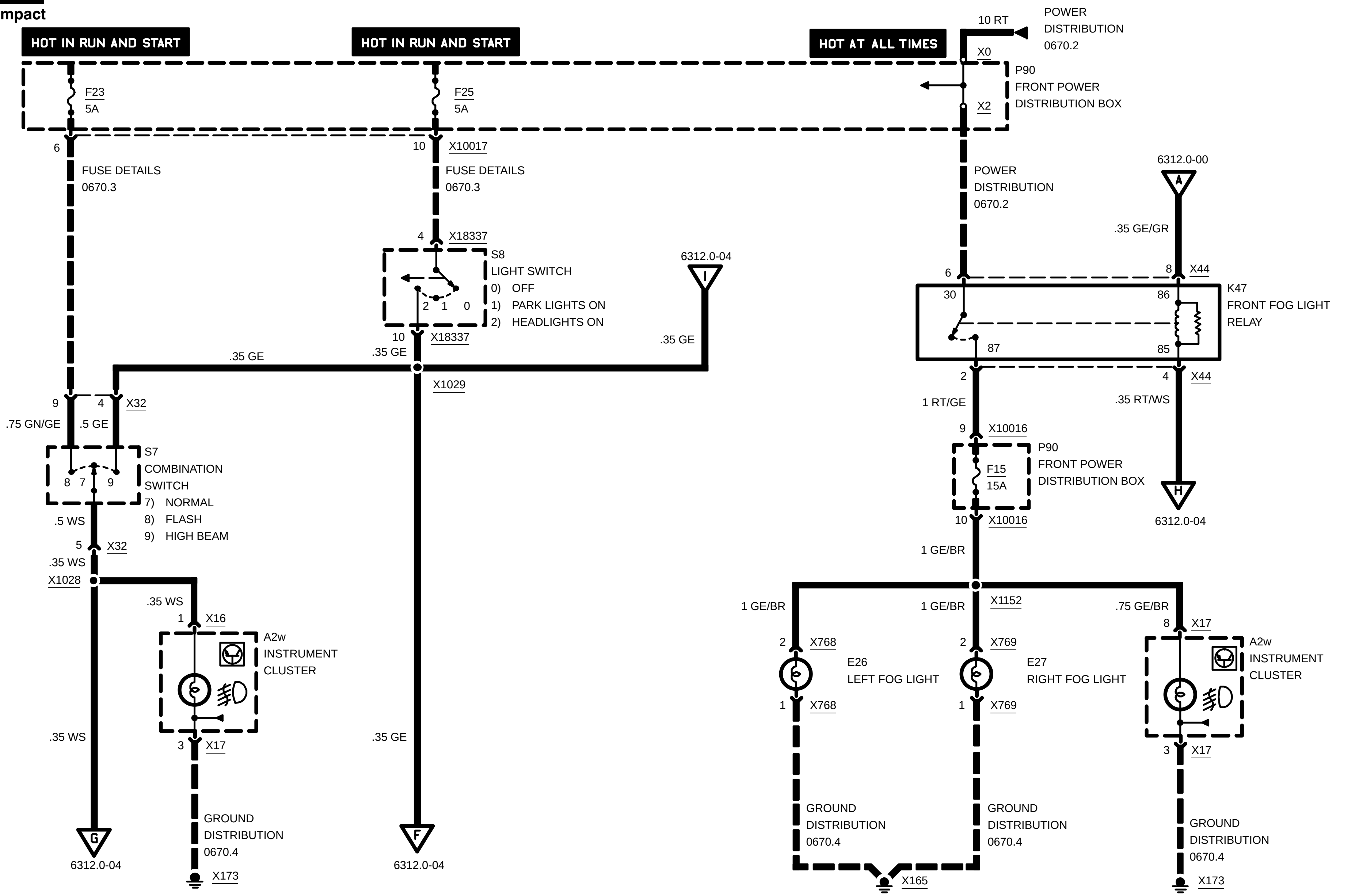
HEADLIGHTS/FOG LIGHTS

USA



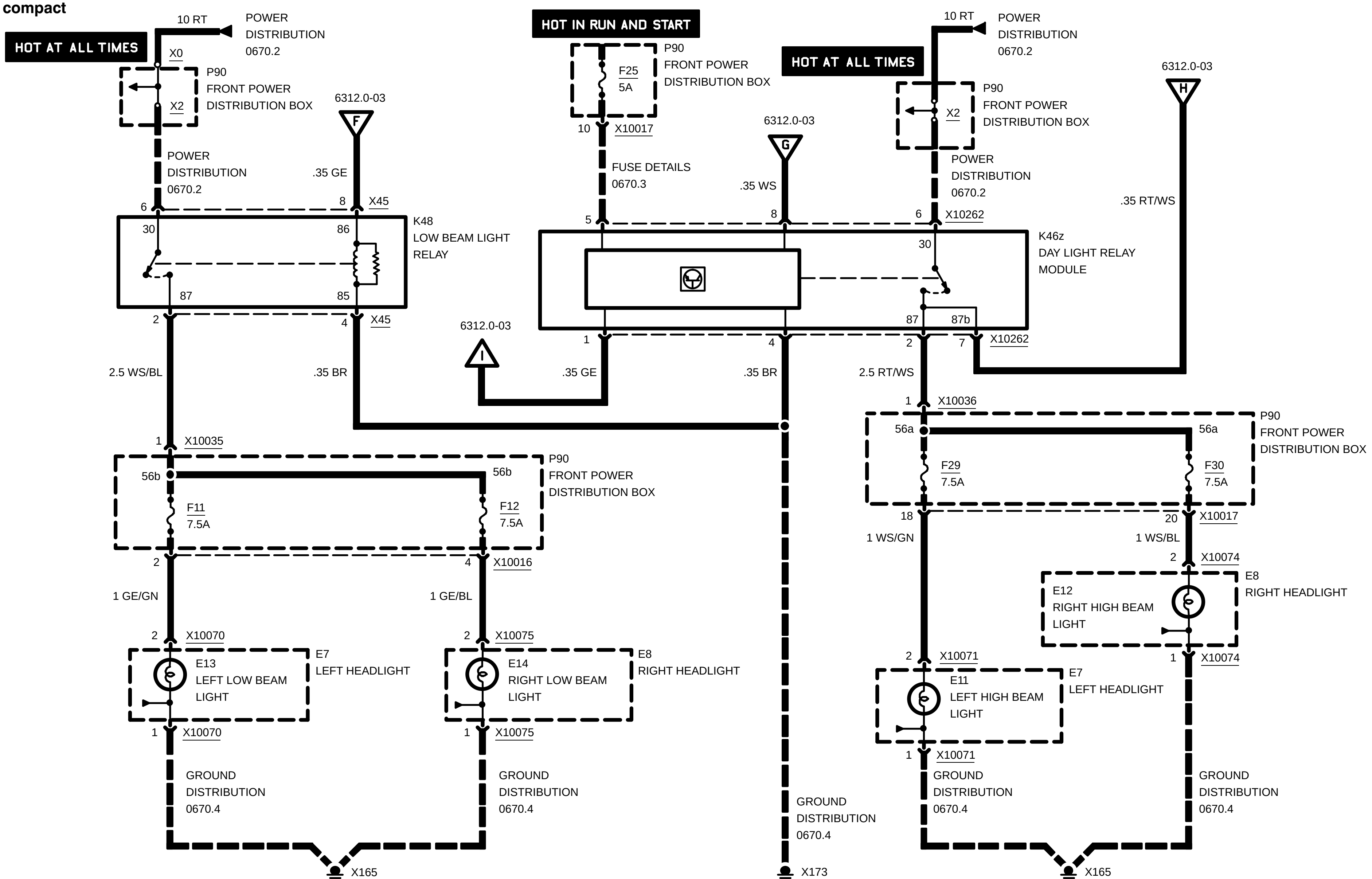
HEADLIGHTS/FOG LIGHTS

CDN

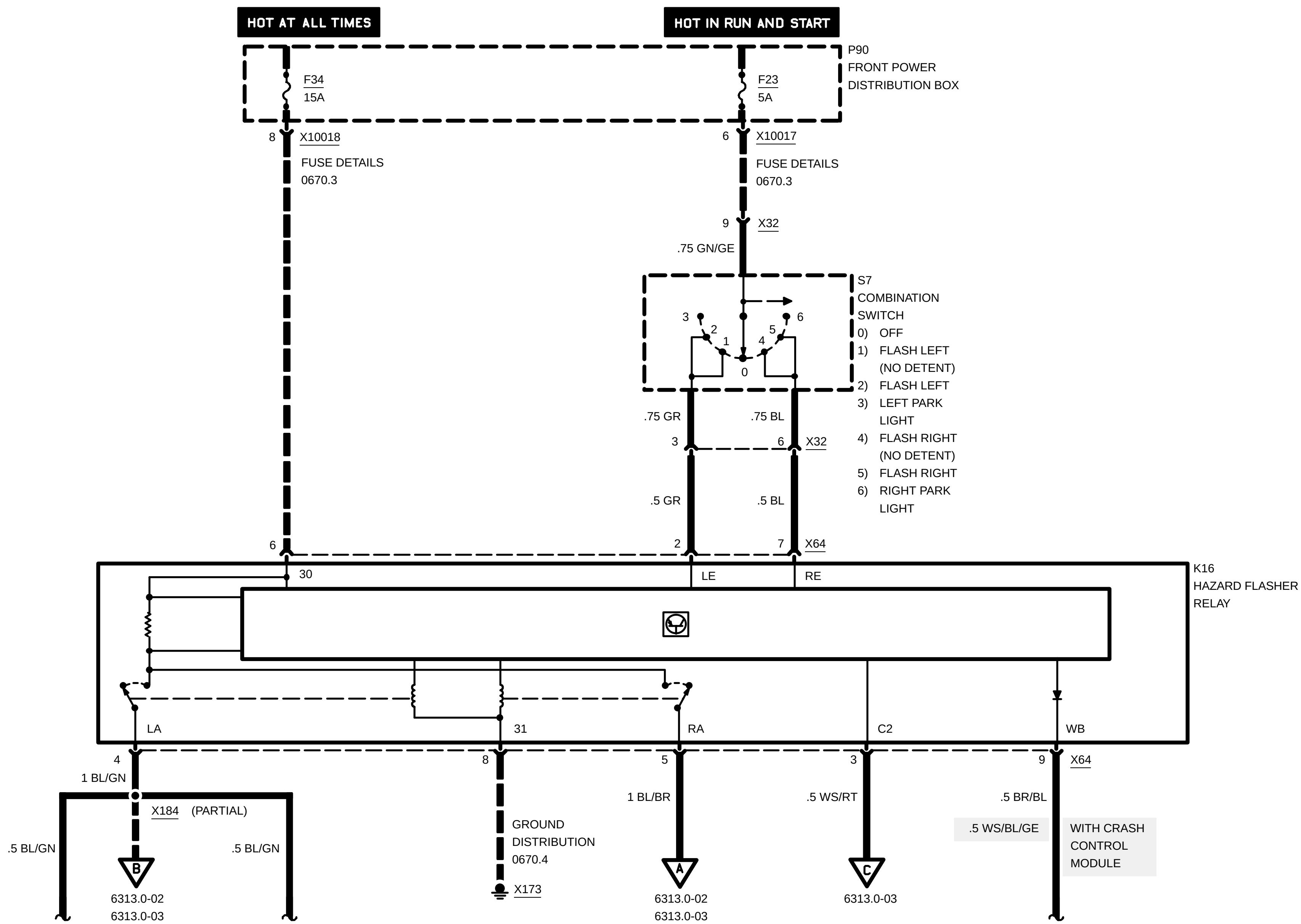


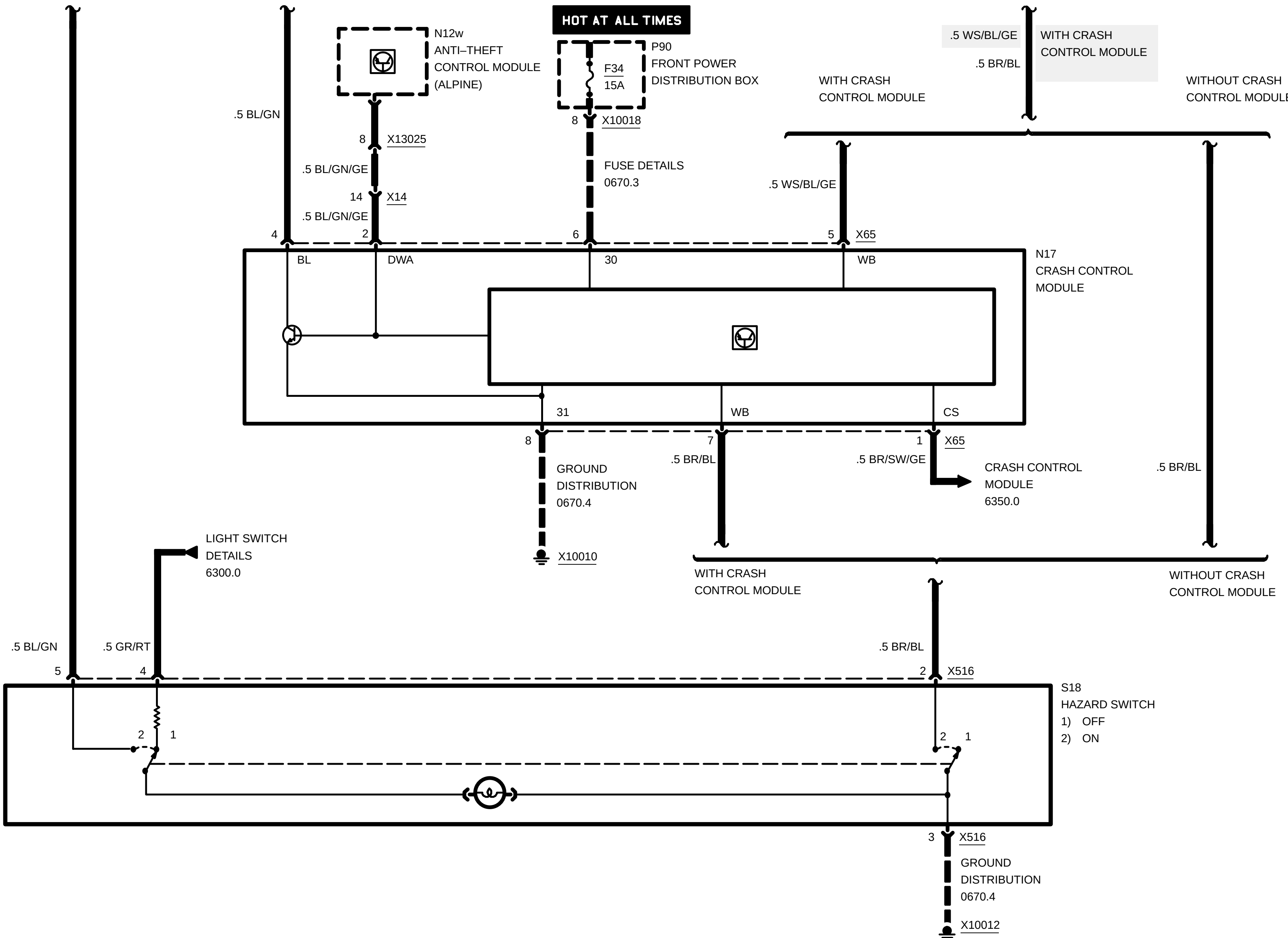
HEADLIGHTS/FOG LIGHTS

CDN

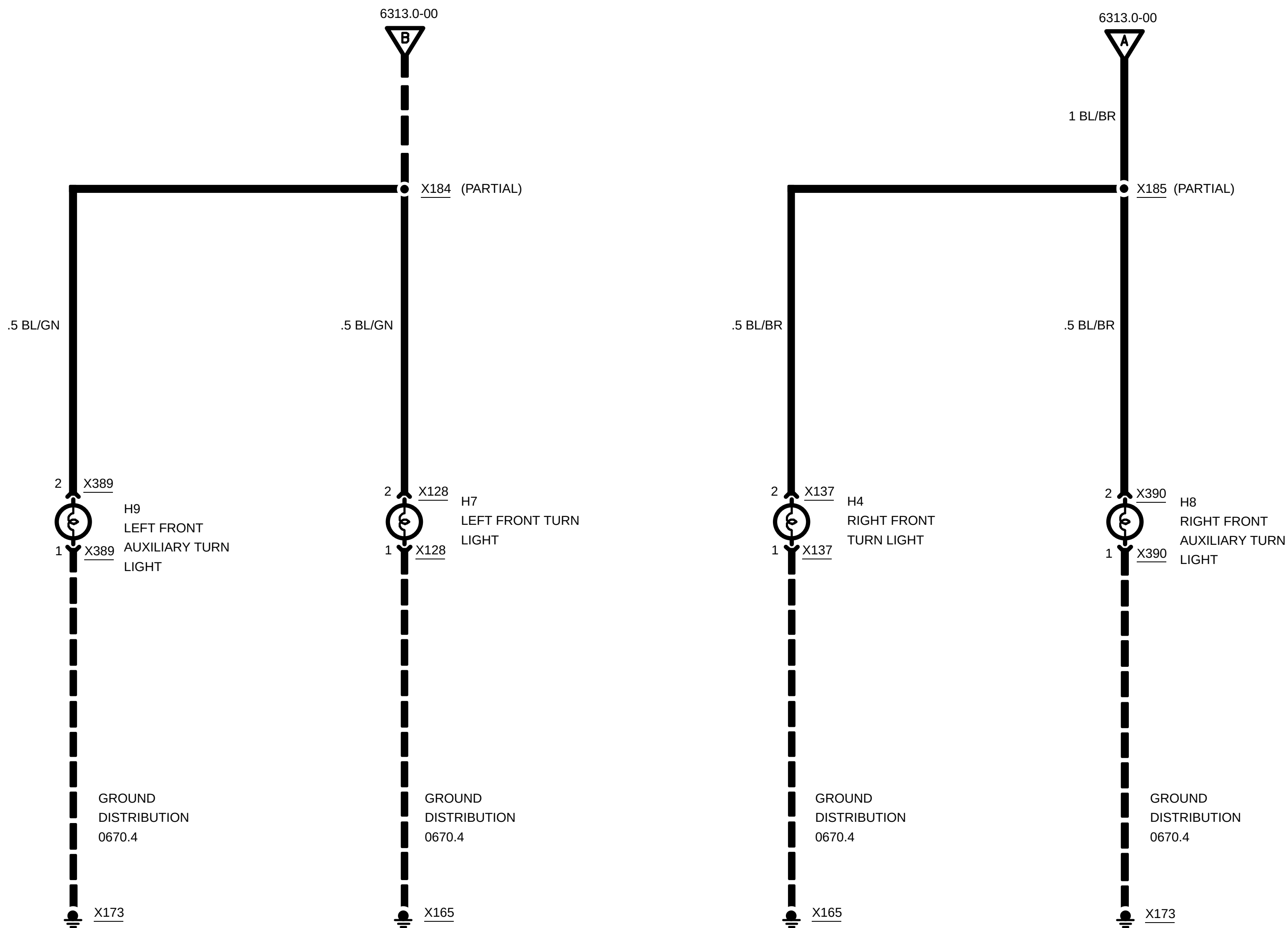


6313.0 TURN/HAZARD LIGHTS

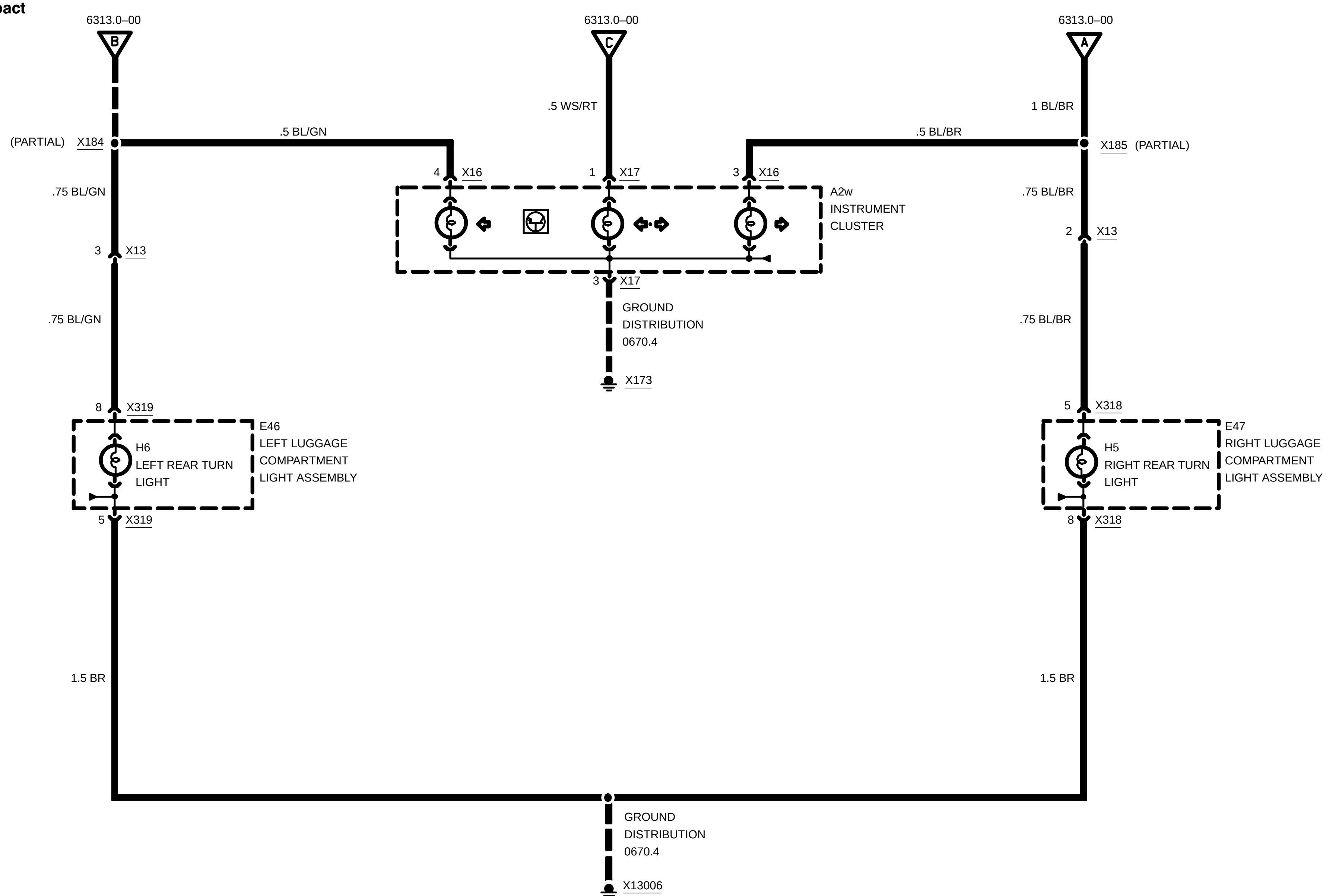



HOT AT ALL TIMES
N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
P90
FRONT POWER
DISTRIBUTION BOX
F34
15A
.5 WS/BL/GE
.5 BR/BL
WITH CRASH
CONTROL MODULE
WITH CRASH
CONTROL MODULE
WITHOUT CRASH
CONTROL MODULE
.5 BL/GN
8 X13025
.5 BL/GN/GE
14 X14
.5 BL/GN/GE
8 X10018
FUSE DETAILS
0670.3
.5 WS/BL/GE
4
2
6
5 X65
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
31
WB
CS
8
7
1 X65
.5 BR/BL
.5 BR/SW/GE
GROUND
DISTRIBUTION
0670.4
CRASH CONTROL
MODULE
6350.0
.5 BR/BL
X10010
LIGHT SWITCH
DETAILS
6300.0
WITH CRASH
CONTROL MODULE
WITHOUT CRASH
CONTROL MODULE
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2 X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3 X516
GROUND
DISTRIBUTION
0670.4
X10012

TURN/HAZARD LIGHTS

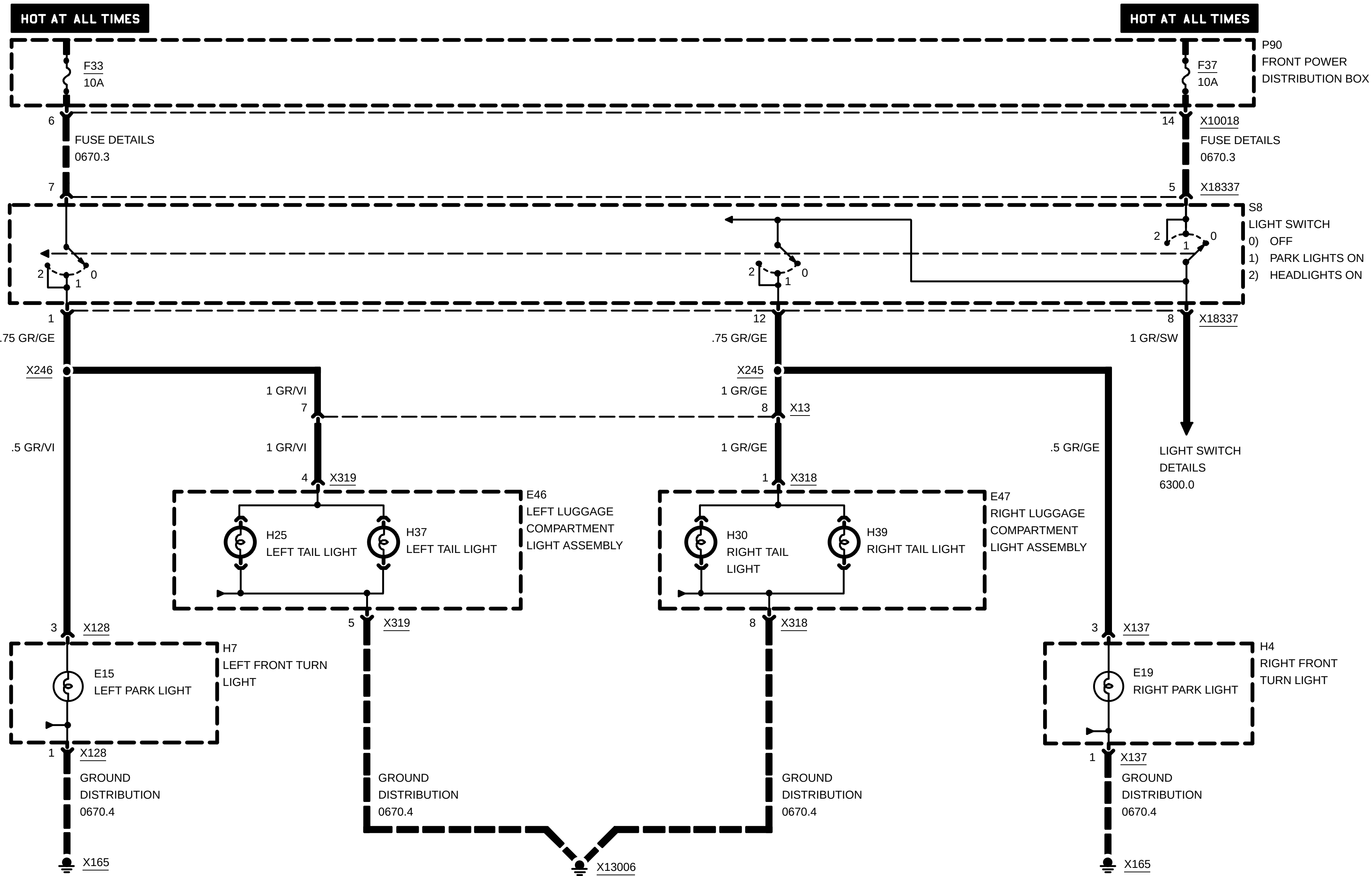


TURN/HAZARD LIGHTS

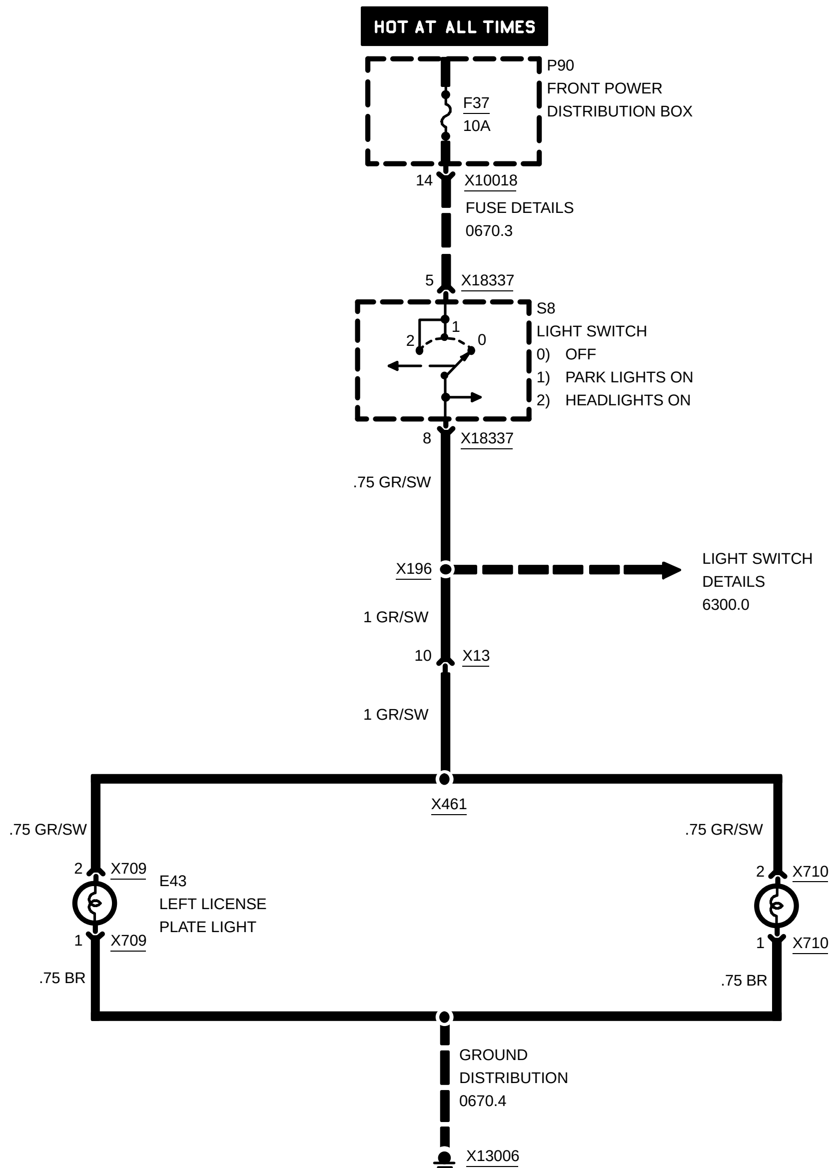


BMW 3 compact

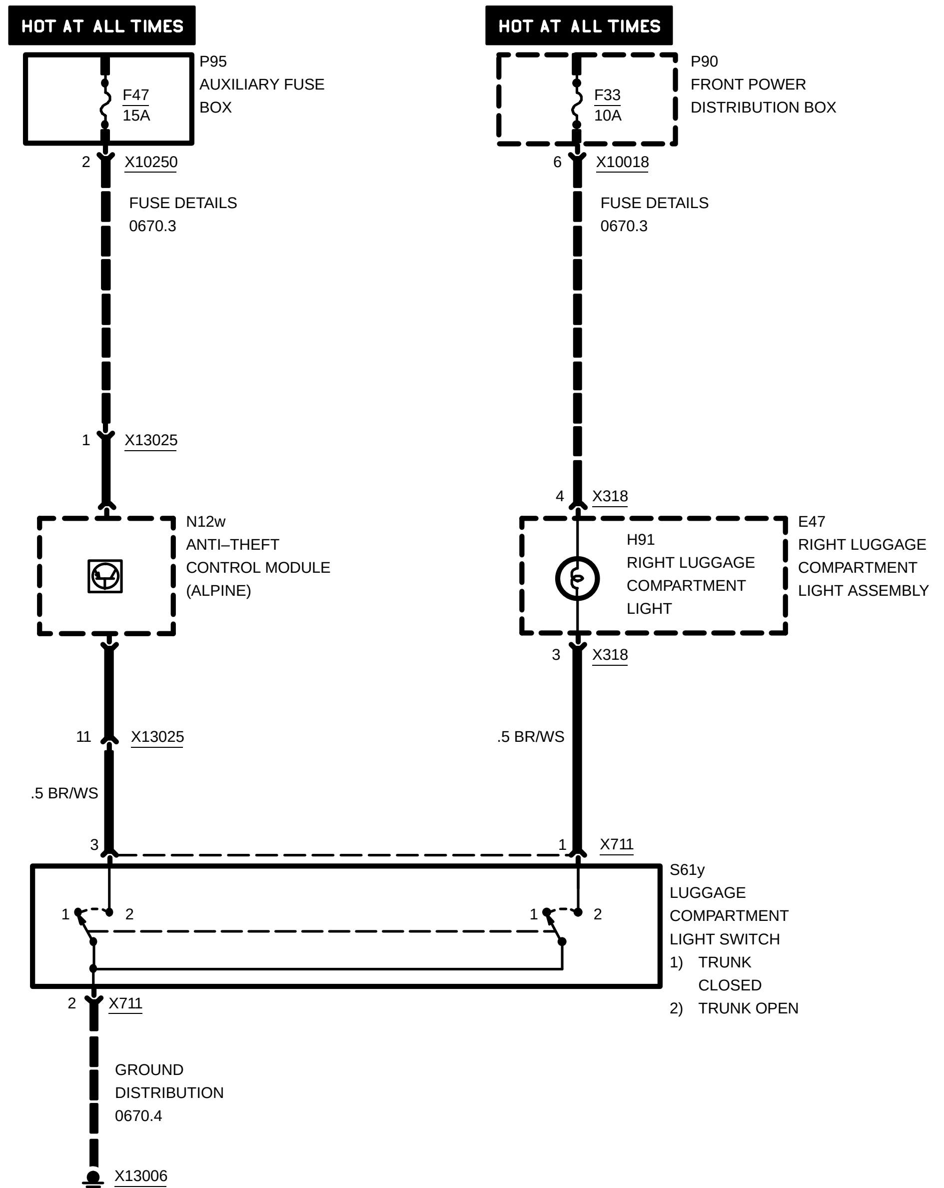
6314.0 PARK/TAIL/UNDERHOOD LIGHTS



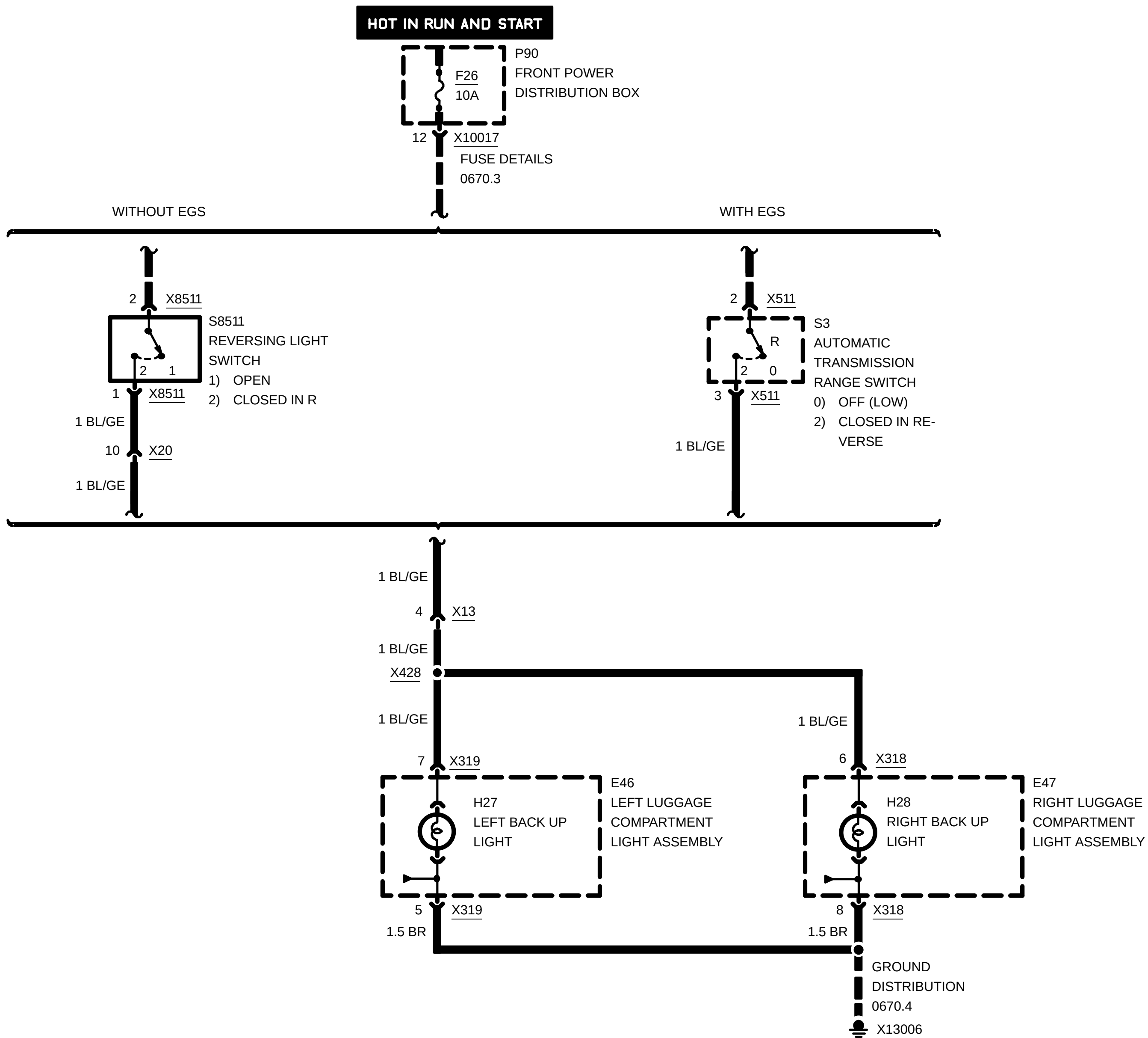
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

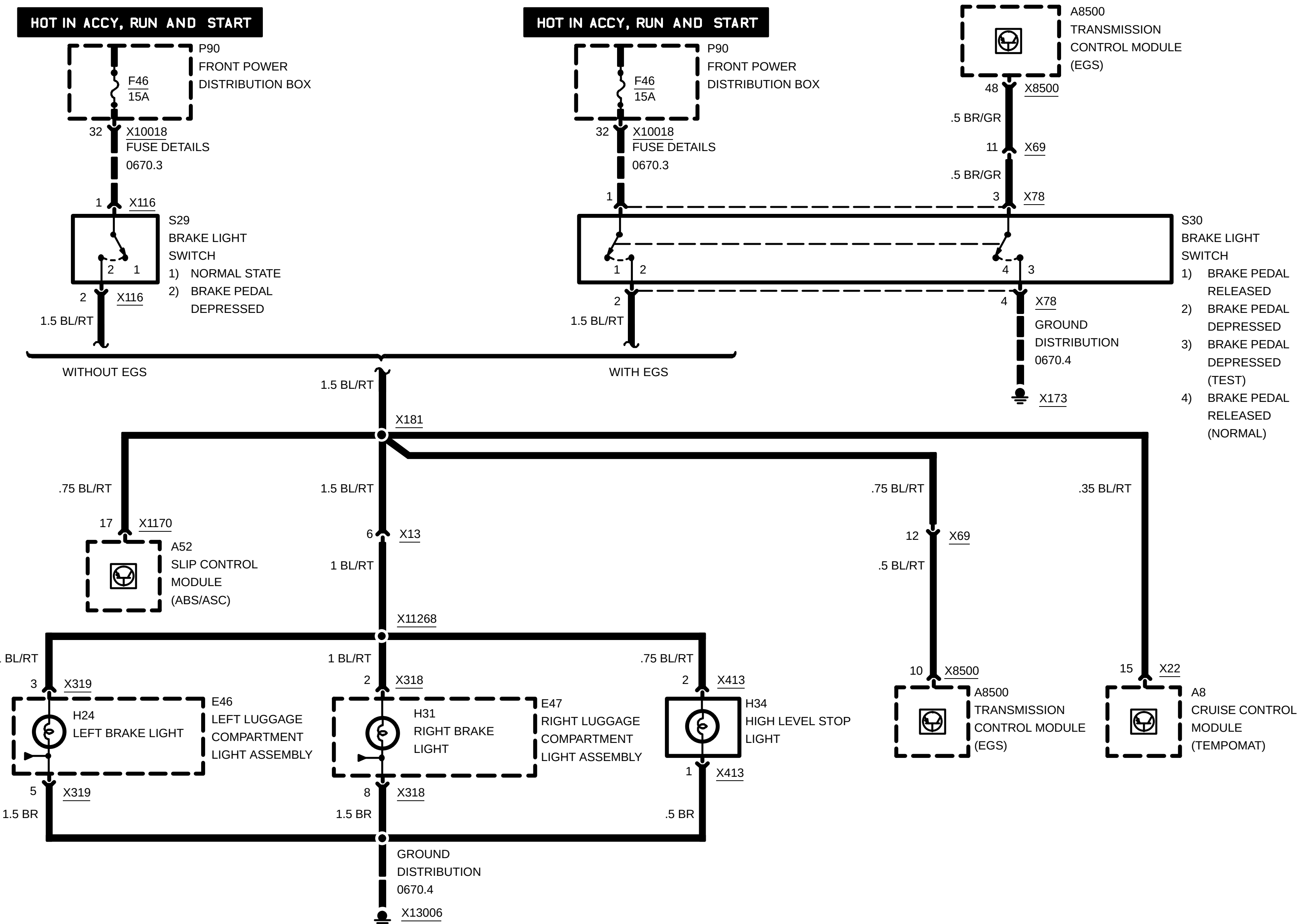


6322.0 BACK UP LIGHTS

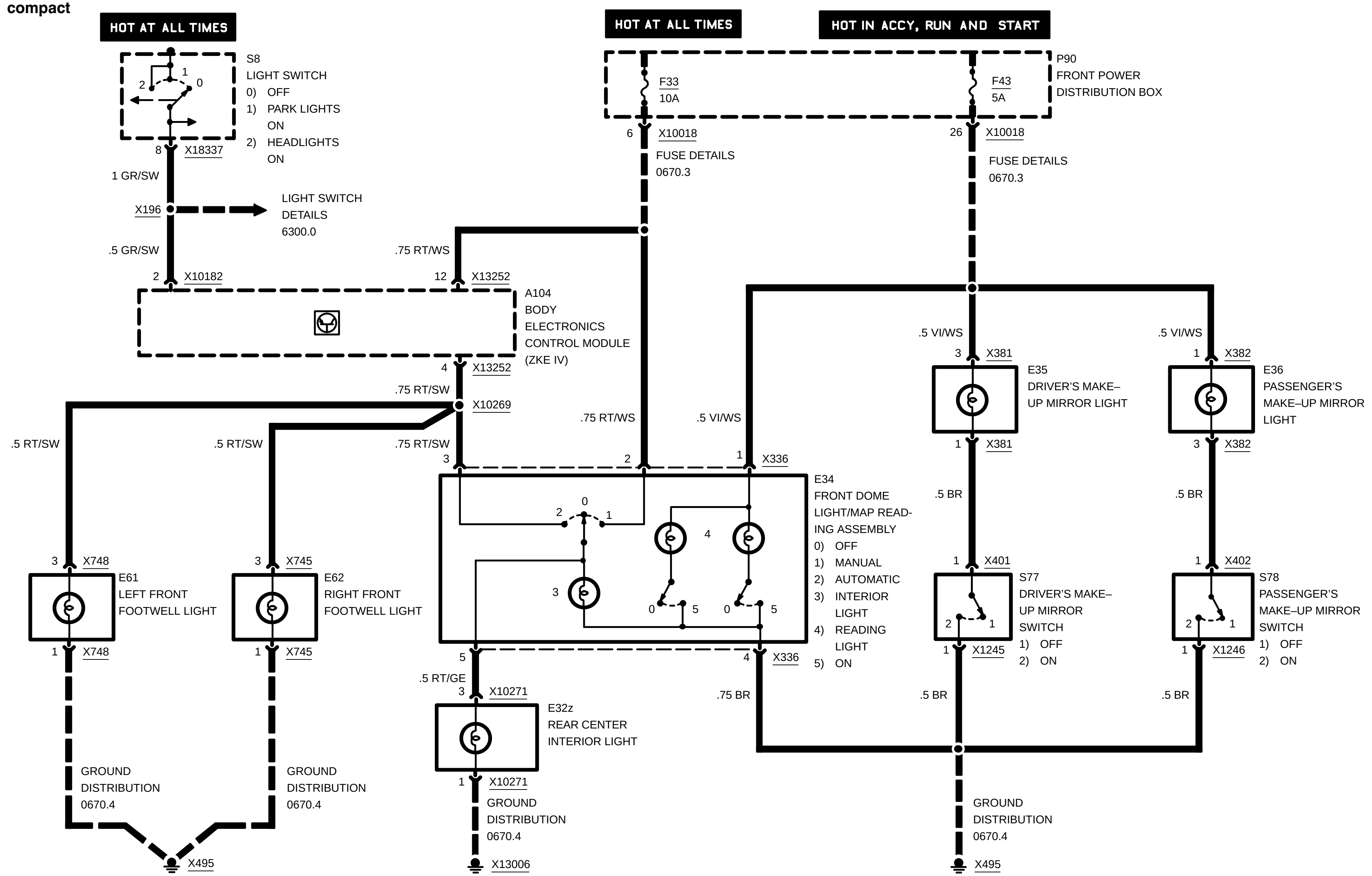


BMW 3 compact

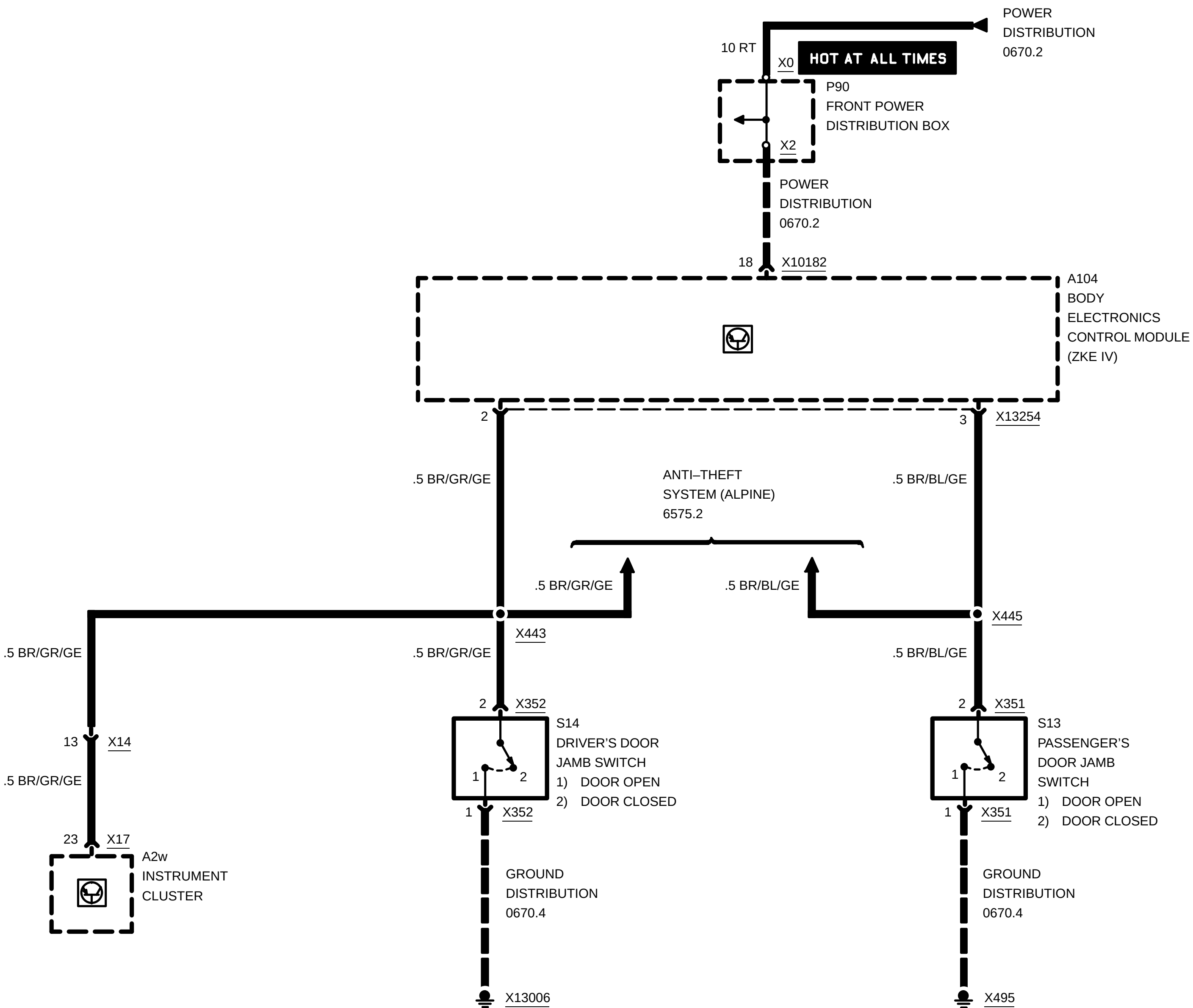
6325.0 BRAKE LIGHTS



6330.3 INTERIOR LIGHTS

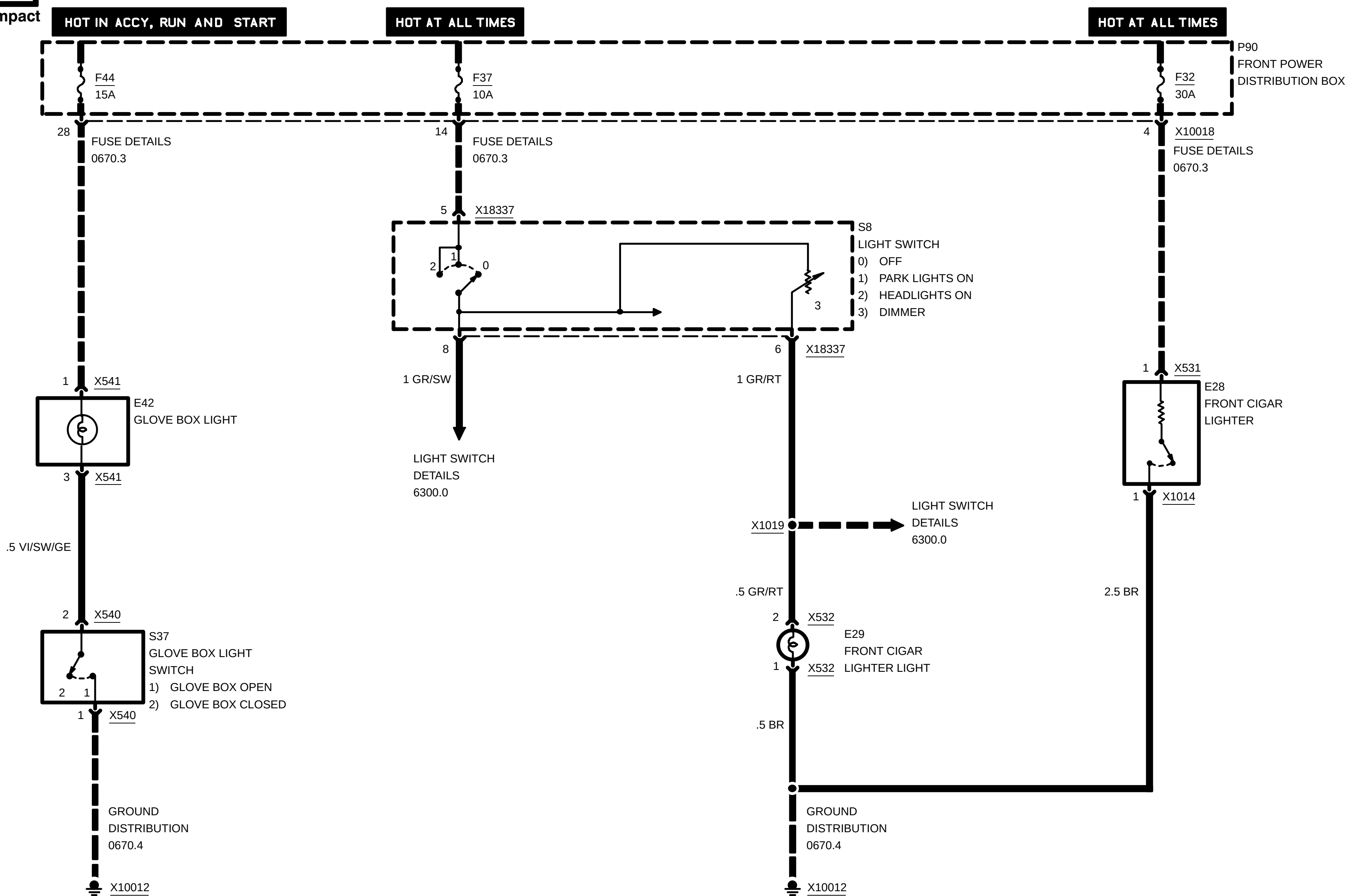


INTERIOR LIGHTS

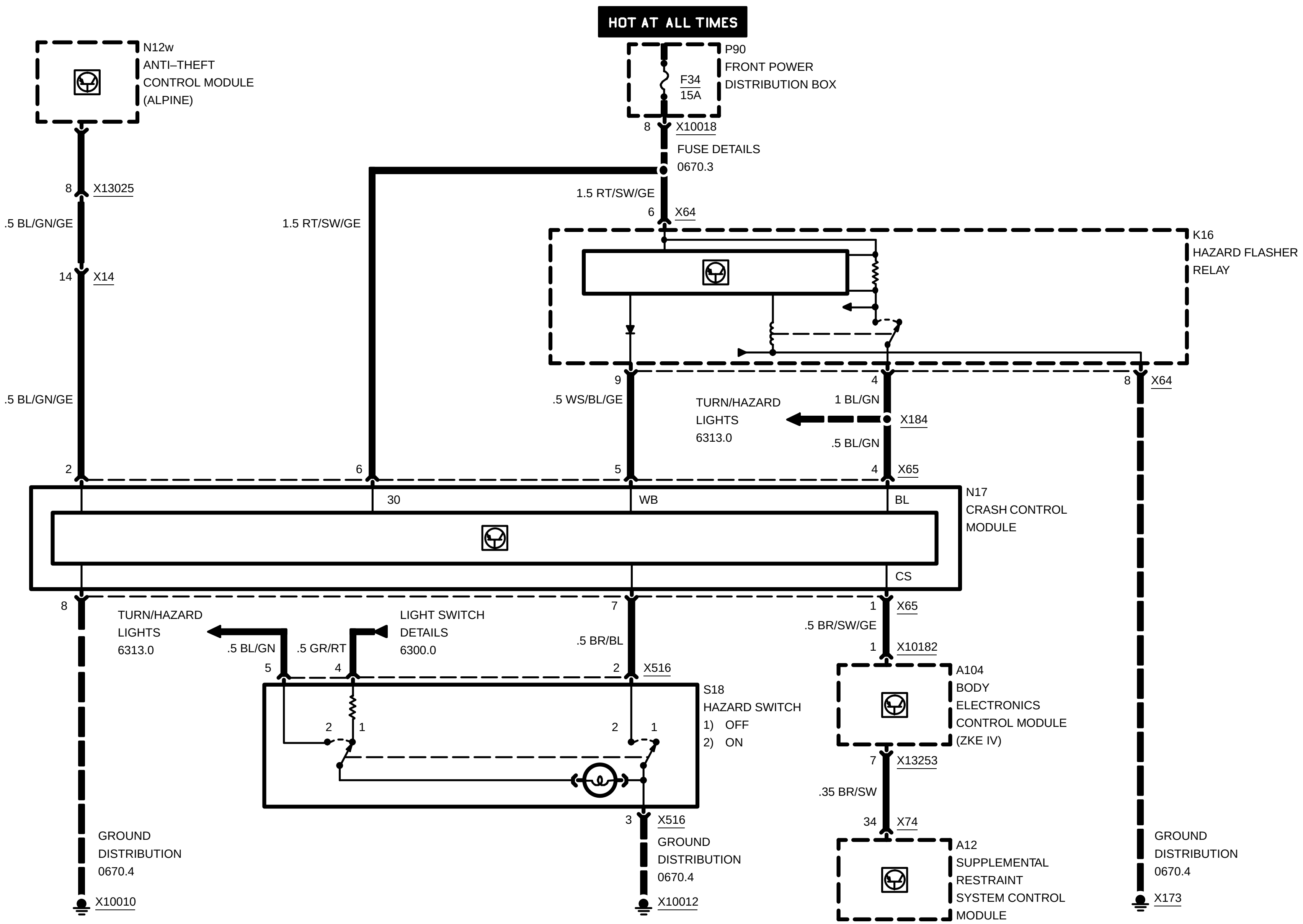


BMW 3 compact

6332.0 INTERIOR ACCESSORIES

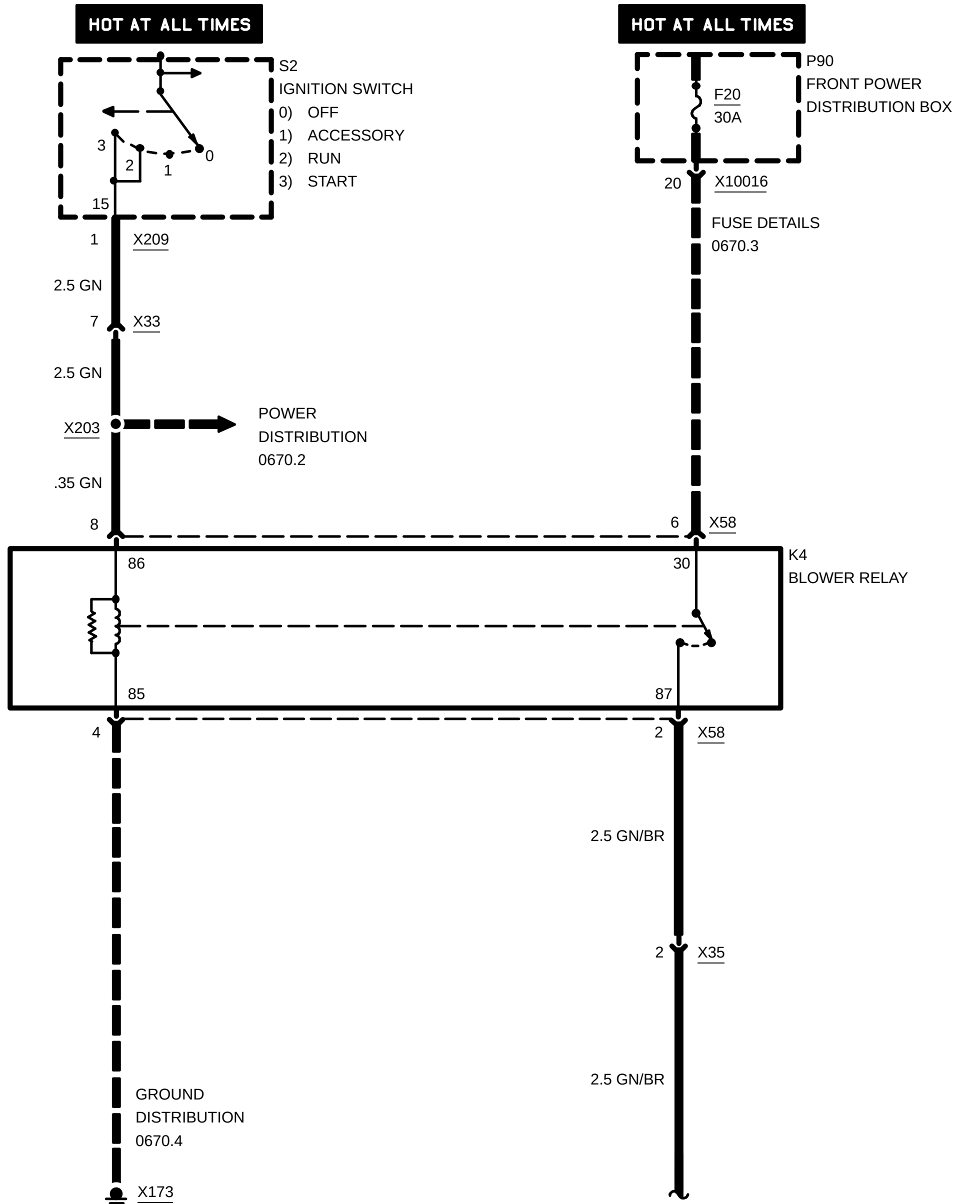


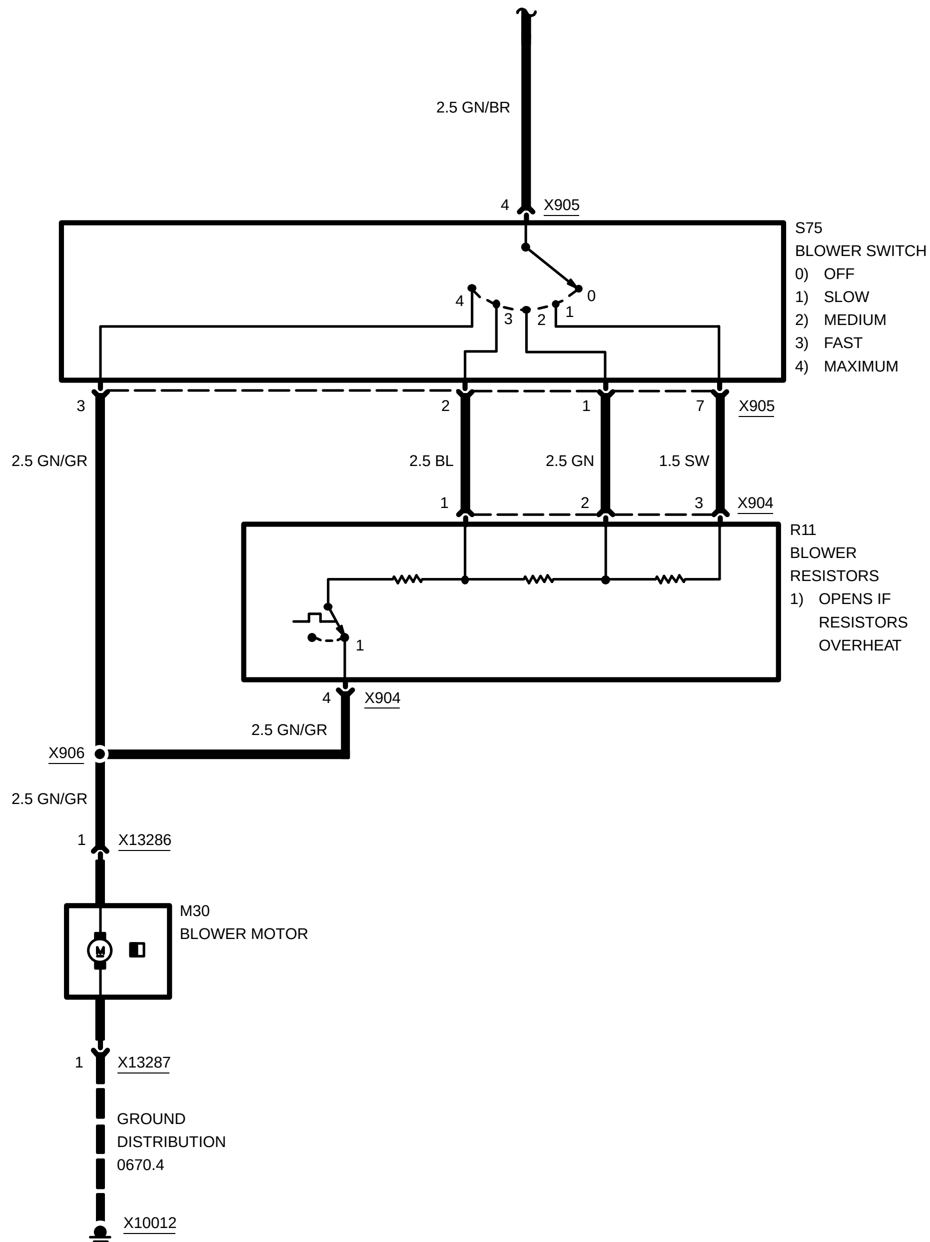
6350.0 CRASH CONTROL MODULE



BMW 3 compact

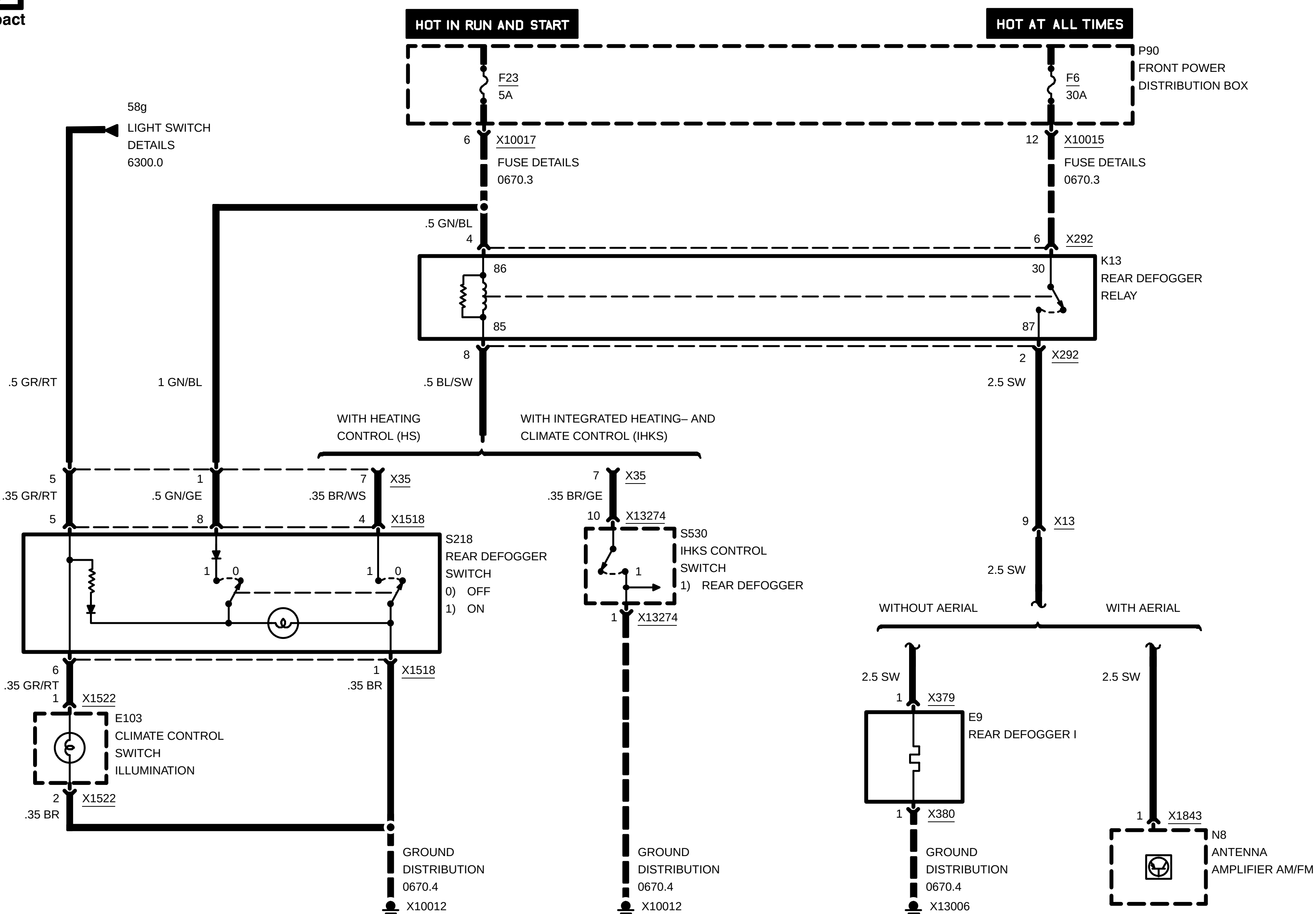
6410.7 HEATING CONTROL (HS)



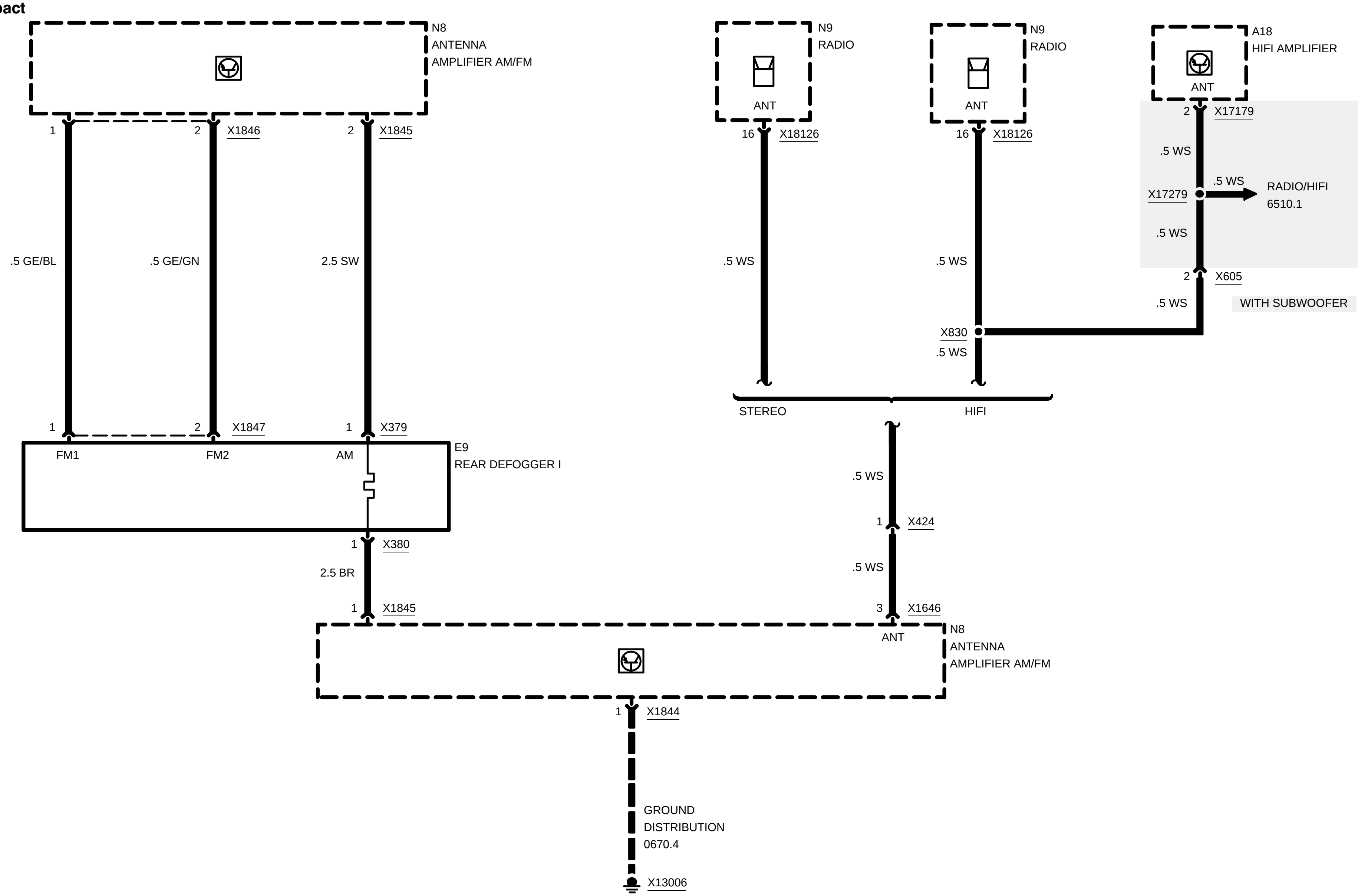

2.5 GN/BR
4
X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4
3
2
1
0
3
2
1
7
X905
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
1
2
3
X904
R11
BLOWER
RESISTORS
1) OPENS IF
RESISTORS
OVERHEAT
1
4
X904
2.5 GN/GR
X906
2.5 GN/GR
1
X13286
M30
BLOWER MOTOR
M
1
X13287
GROUND
DISTRIBUTION
0670.4
X10012

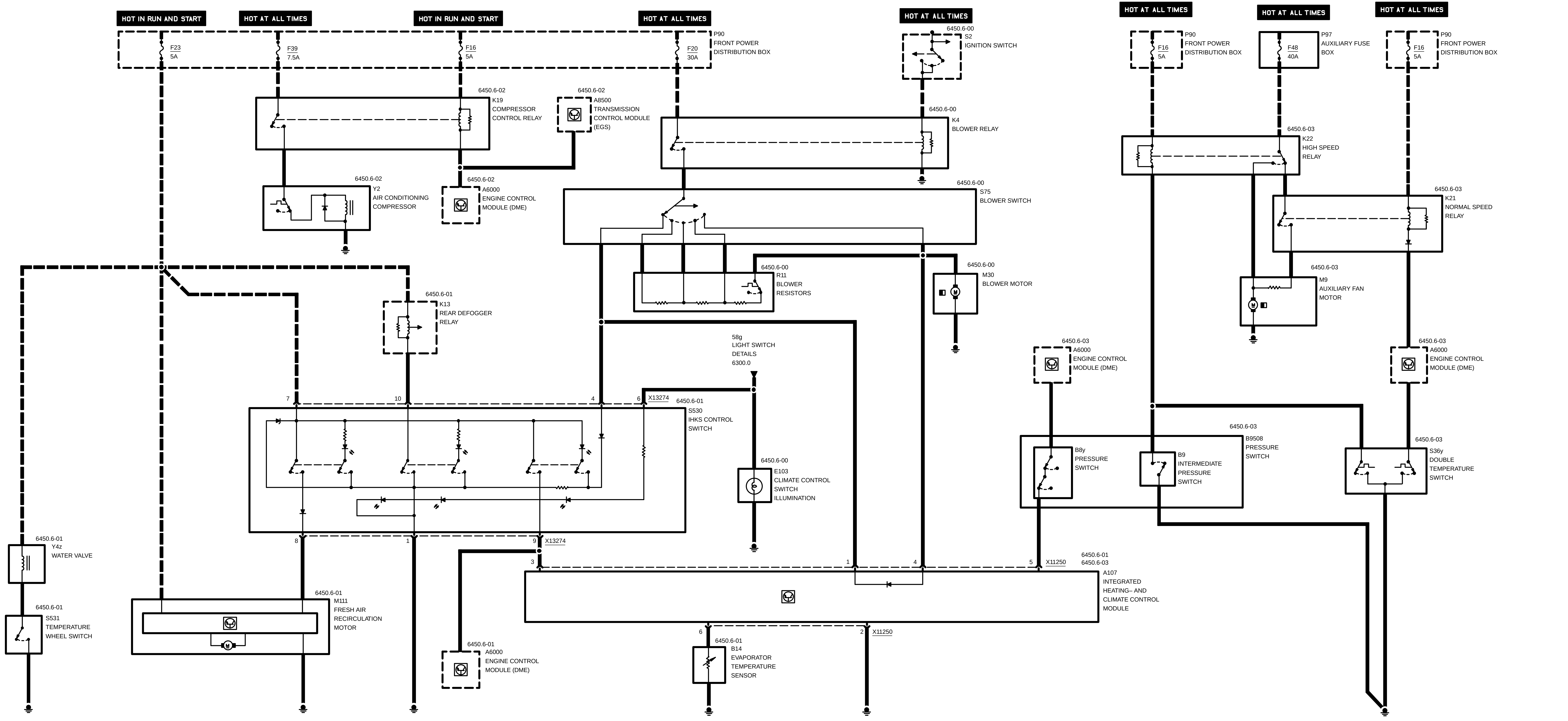
BMW 3 compact

6424.0 REAR WINDOW DEFOGGER/ANTENNA



REAR WINDOW DEFOGGER/ANTENNA




HOT IN RUN AND START
HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
F23 5A
F39 7.5A
F16 5A
F20 30A
P90 FRONT POWER DISTRIBUTION BOX
6450.6-00 S2 IGNITION SWITCH
F16 5A
P90 FRONT POWER DISTRIBUTION BOX
F48 40A
P97 AUXILIARY FUSE BOX
F16 5A
P90 FRONT POWER DISTRIBUTION BOX
6450.6-02 K19 COMPRESSOR CONTROL RELAY
6450.6-02 A8500 TRANSMISSION CONTROL MODULE (EGS)
6450.6-00 K4 BLOWER RELAY
6450.6-03 K22 HIGH SPEED RELAY
6450.6-02 Y2 AIR CONDITIONING COMPRESSOR
6450.6-02 A6000 ENGINE CONTROL MODULE (DME)
6450.6-00 S75 BLOWER SWITCH
6450.6-03 K21 NORMAL SPEED RELAY
6450.6-00 R11 BLOWER RESISTORS
6450.6-00 M30 BLOWER MOTOR
6450.6-03 M9 AUXILIARY FAN MOTOR
6450.6-01 K13 REAR DEFOGGER RELAY
58g LIGHT SWITCH DETAILS 6300.0
6450.6-03 A6000 ENGINE CONTROL MODULE (DME)
6450.6-03 A6000 ENGINE CONTROL MODULE (DME)
7
10
4
6
X13274
6450.6-01 S530 IHKS CONTROL SWITCH
6450.6-03 B9508 PRESSURE SWITCH
B8y PRESSURE SWITCH
B9 INTERMEDIATE PRESSURE SWITCH
6450.6-03 S36y DOUBLE TEMPERATURE SWITCH
6450.6-00 E103 CLIMATE CONTROL SWITCH ILLUMINATION
6450.6-01 Y4z WATER VALVE
8
1
9
X13274
3
1
4
5
X11250
6450.6-01 6450.6-03 A107 INTEGRATED HEATING– AND CLIMATE CONTROL MODULE
6450.6-01 M111 FRESH AIR RECIRCULATION MOTOR
6450.6-01 S531 TEMPERATURE WHEEL SWITCH
6450.6-01 A6000 ENGINE CONTROL MODULE (DME)
6
2
X11250
6450.6-01 B14 EVAPORATOR TEMPERATURE SENSOR

Pin Assignments

X11250	6-Pins, black
X13274	10-Pins, black

X11250

Pin	Type	Description/Function	Connection
1	E	Air recirculation signal	Blower switch
2	M	Ground	Ground point
3	E	Function signal	IHKS switch, engine control module (DME)
4	E	Air recirculation signal	Blower switch
5	E	Pressure signal	Pressure switch
6	E	Evaporative temperature	Evaporative temperature sensor

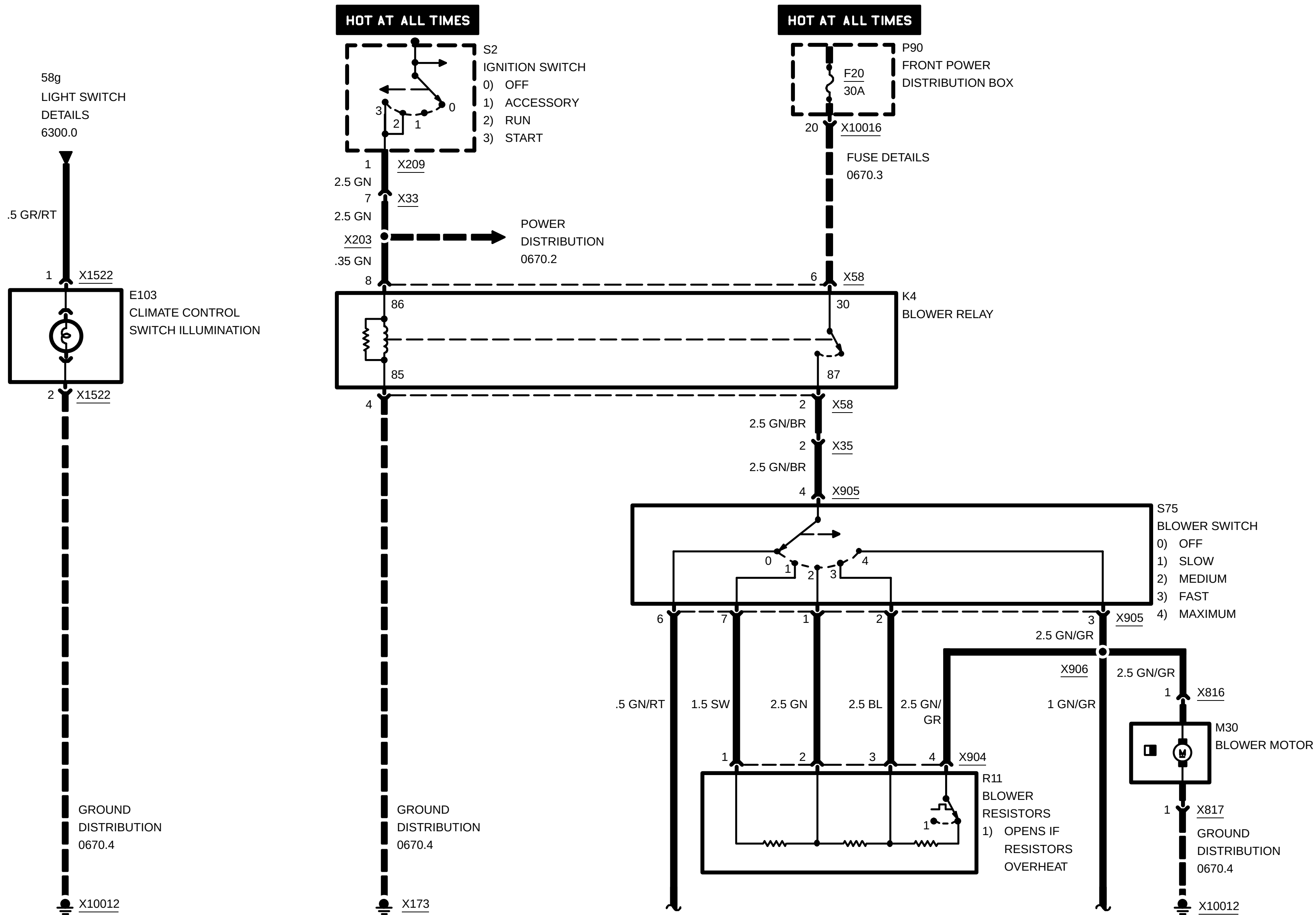
X13274

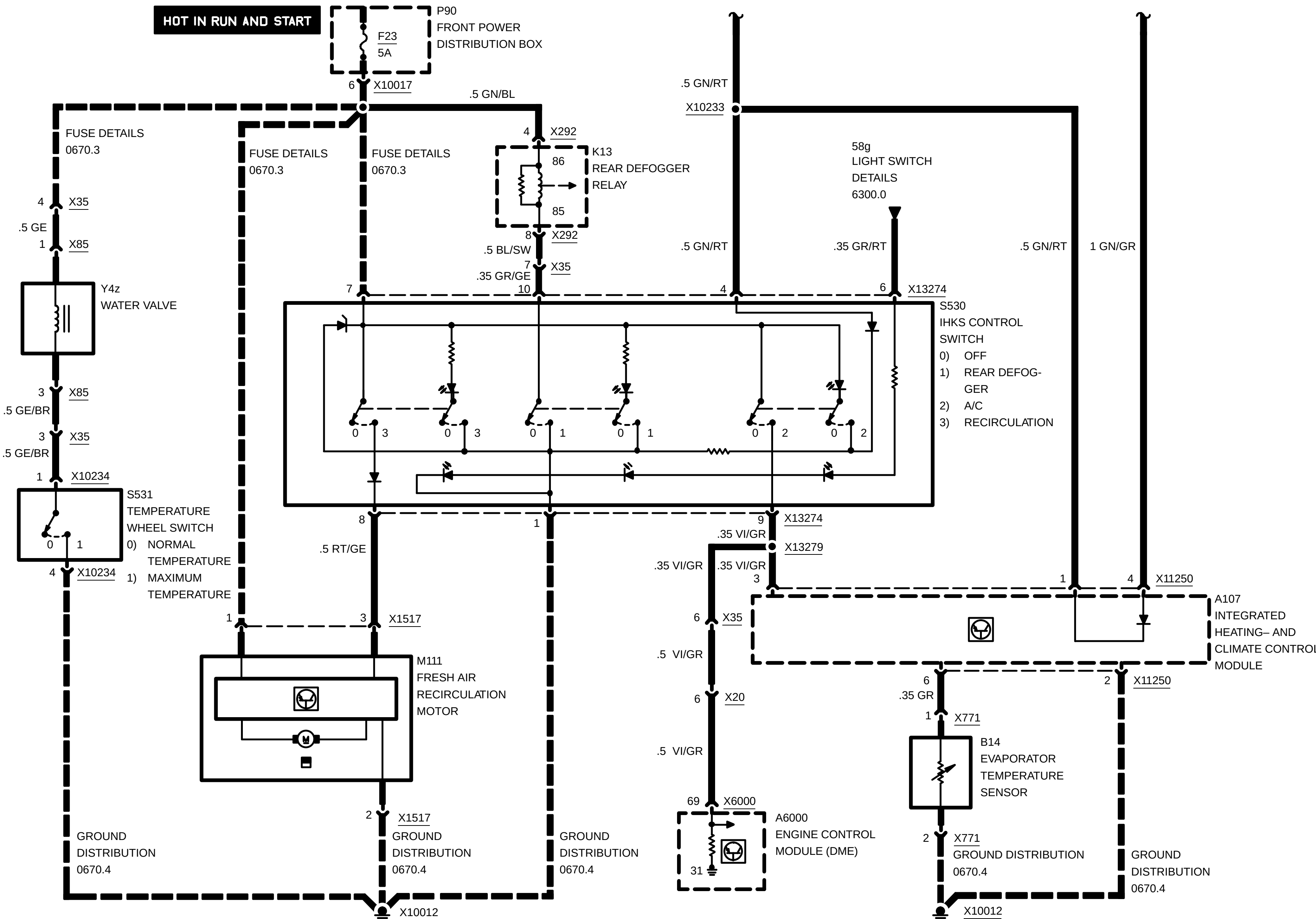
Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2		Not used	
3		Not used	
4	E	Air-recirculation signal	Blower switch
5		Not used	
6	E	Terminal 58g	Light switch
7	E	Terminal 15	Front power distribution box, fuse 23
8	A	Air recirculation signal	Fresh air recirculation motor
9	A	Function signal	IHKS-control module, engine control module (DME)
10	A	Rear defogger signal	Rear window defogger relay

E = Input, A = Output, M = Ground

INTEGRATED HEATING– AND CLIMATE CONTROL

POWER, AIR FLOW CONTROL

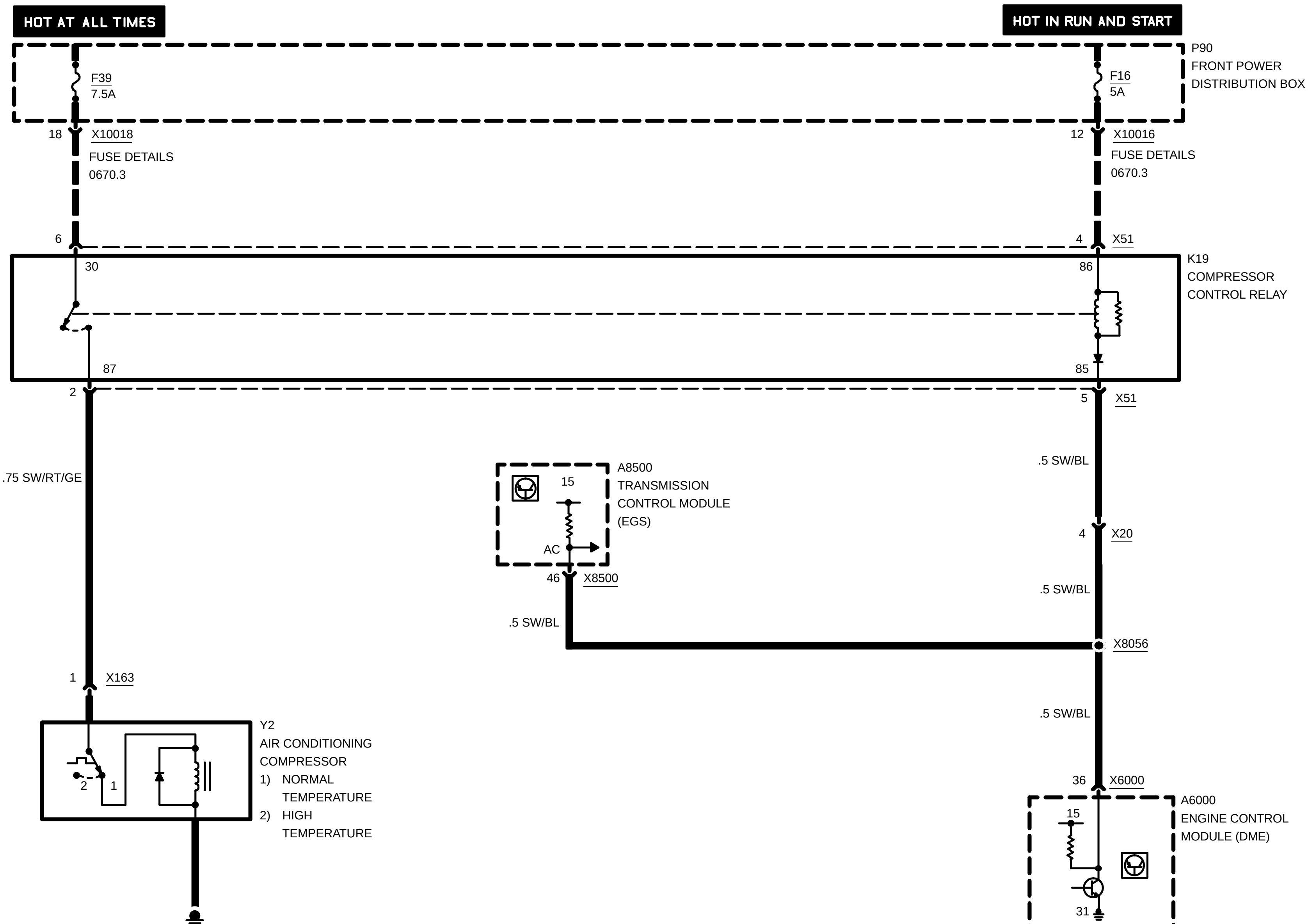




HOT IN RUN AND START
F23
5A
P90
FRONT POWER
DISTRIBUTION BOX
6 X10017
.5 GN/BL
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
4 X292
K13
REAR DEFOGGER
RELAY
86
85
8 X292
.5 BL/SW
7 X35
.35 GR/GE
.5 GN/RT
X10233
58g
LIGHT SWITCH
DETAILS
6300.0
.5 GN/RT
.35 GR/RT
.5 GN/RT
1 GN/GR
4 X35
.5 GE
1 X85
Y4z
WATER VALVE
7
10
4
6 X13274
S530
IHKS CONTROL
SWITCH
0) OFF
1) REAR DEFOG-
GER
2) A/C
3) RECIRCULATION
0 3 0 3 0 1 0 1 0 2 0 2
3 X85
.5 GE/BR
3 X35
.5 GE/BR
1 X10234
S531
TEMPERATURE
WHEEL SWITCH
0) NORMAL
TEMPERATURE
1) MAXIMUM
TEMPERATURE
0 1
4 X10234
8
1
9 X13274
.35 VI/GR
X13279
.5 RT/GE
.35 VI/GR
.35 VI/GR
3
1
4 X11250
A107
INTEGRATED
HEATING– AND
CLIMATE CONTROL
MODULE
1
3 X1517
6 X35
.5 VI/GR
M111
FRESH AIR
RECIRCULATION
MOTOR
6 X20
6
.35 GR
2 X11250
1 X771
.5 VI/GR
B14
EVAPORATOR
TEMPERATURE
SENSOR
69 X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
2 X1517
2 X771
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10012
X10012

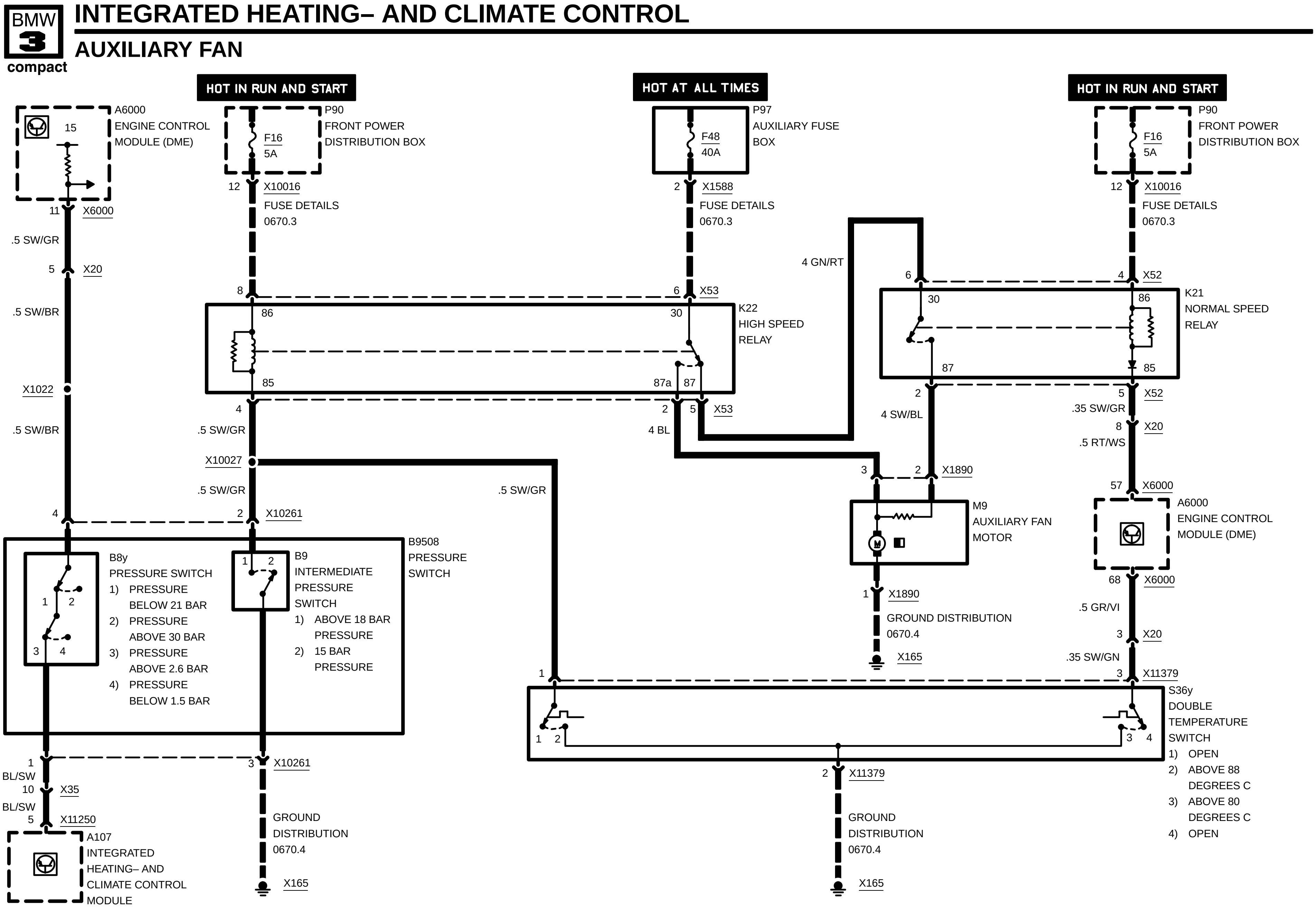
INTEGRATED HEATING– AND CLIMATE CONTROL

COMPRESSOR CONTROLS

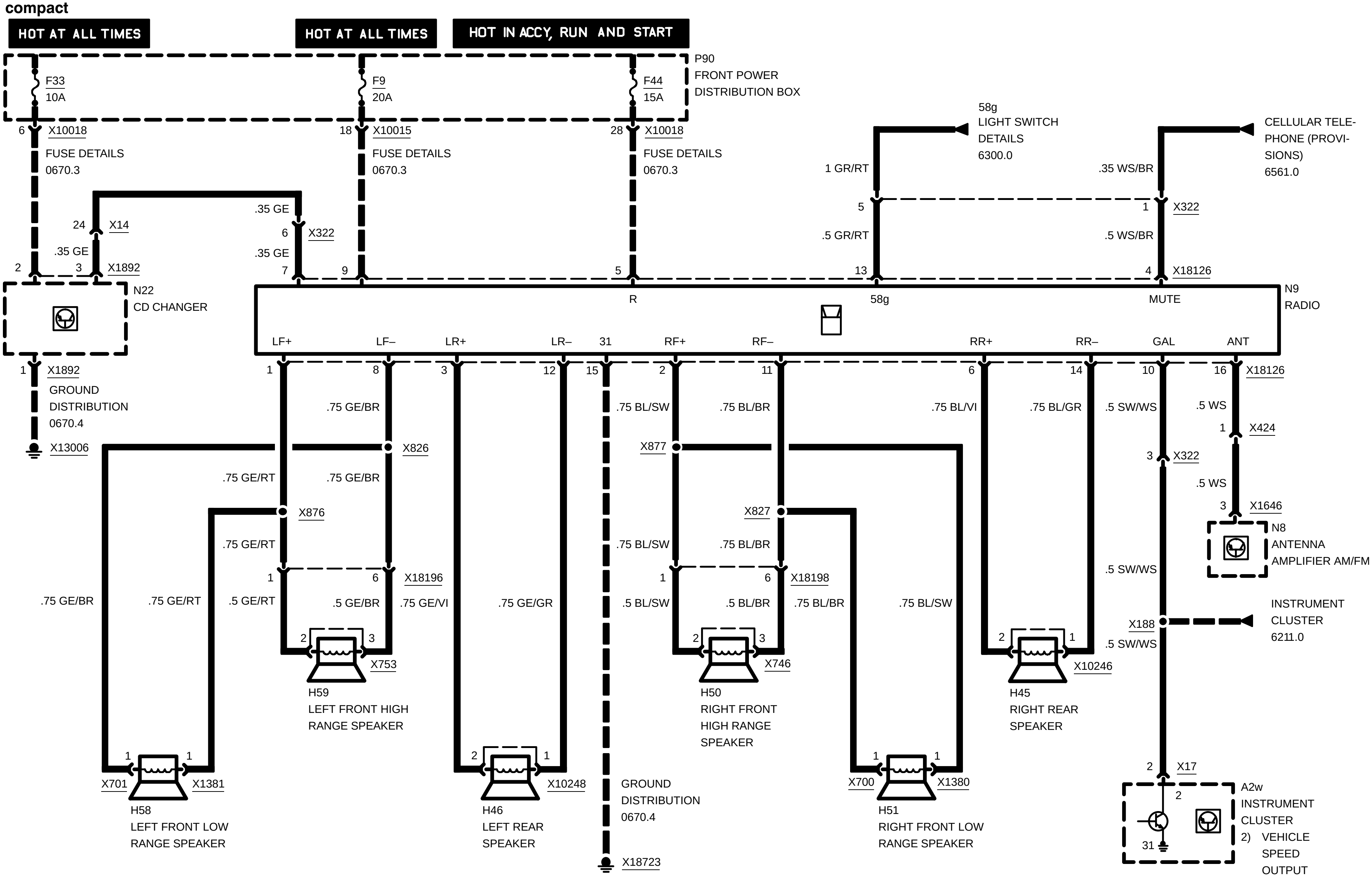


INTEGRATED HEATING– AND CLIMATE CONTROL

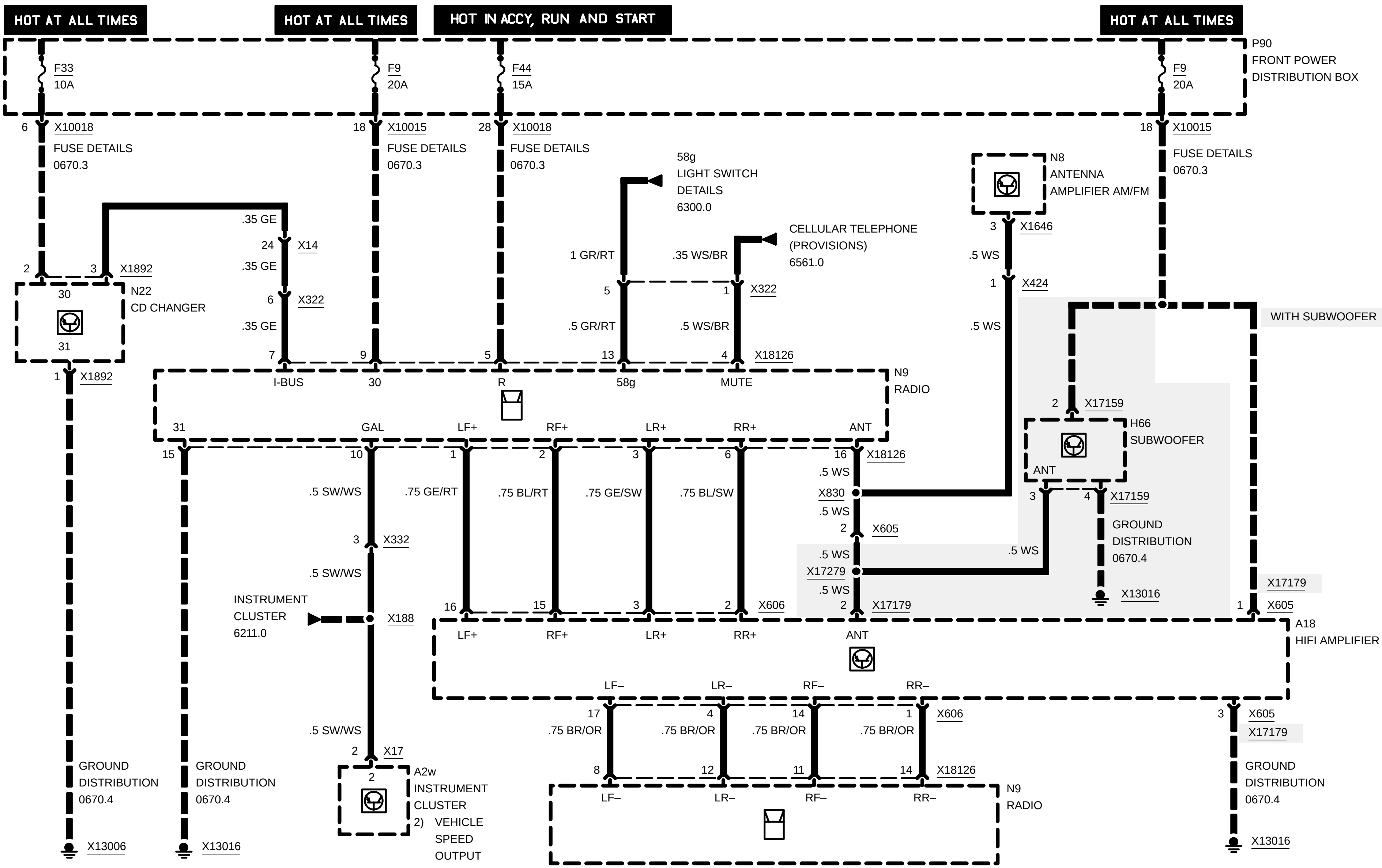
AUXILIARY FAN



6510.0 RADIO/STEREO

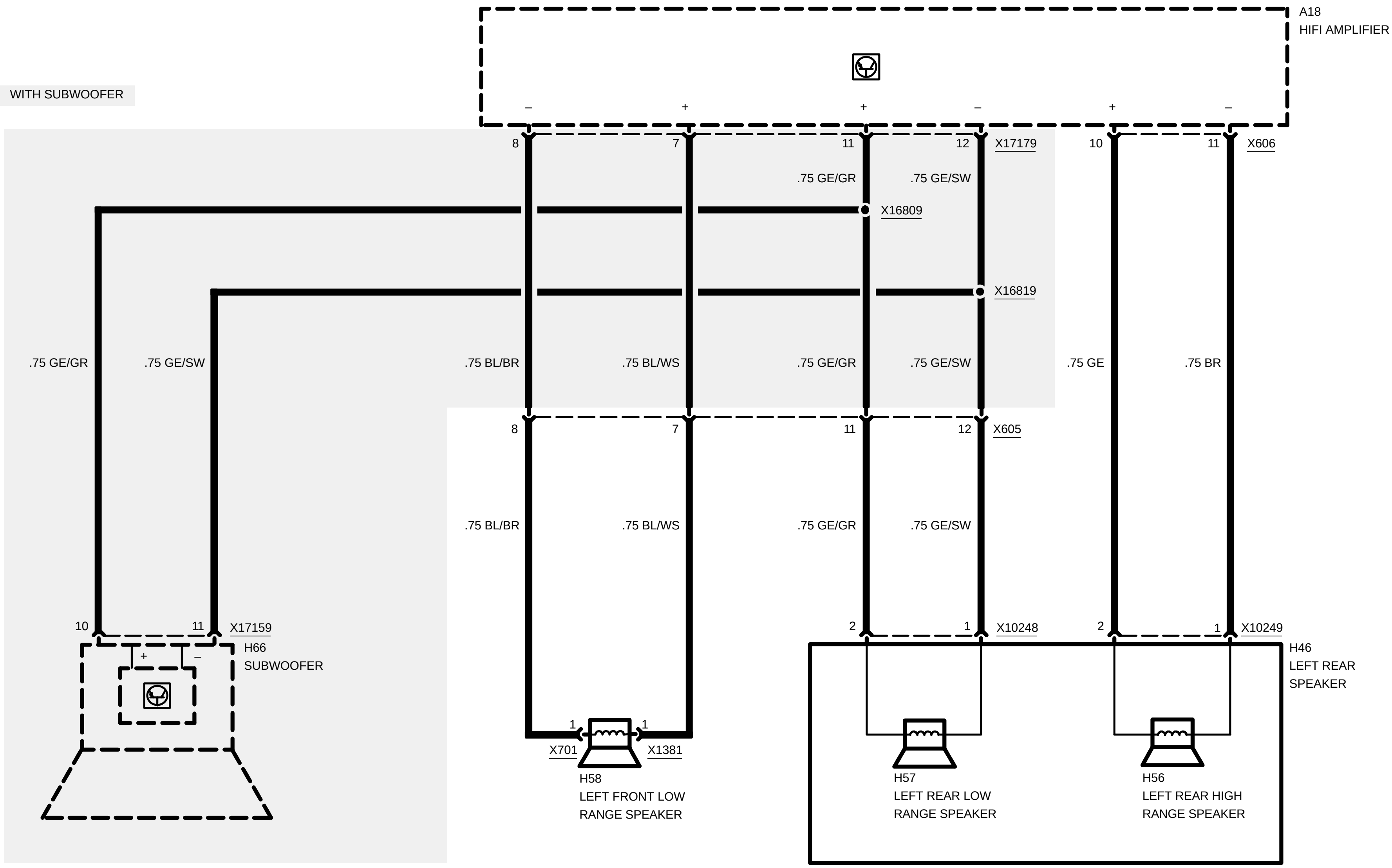


6510.1 RADIO/HIFI

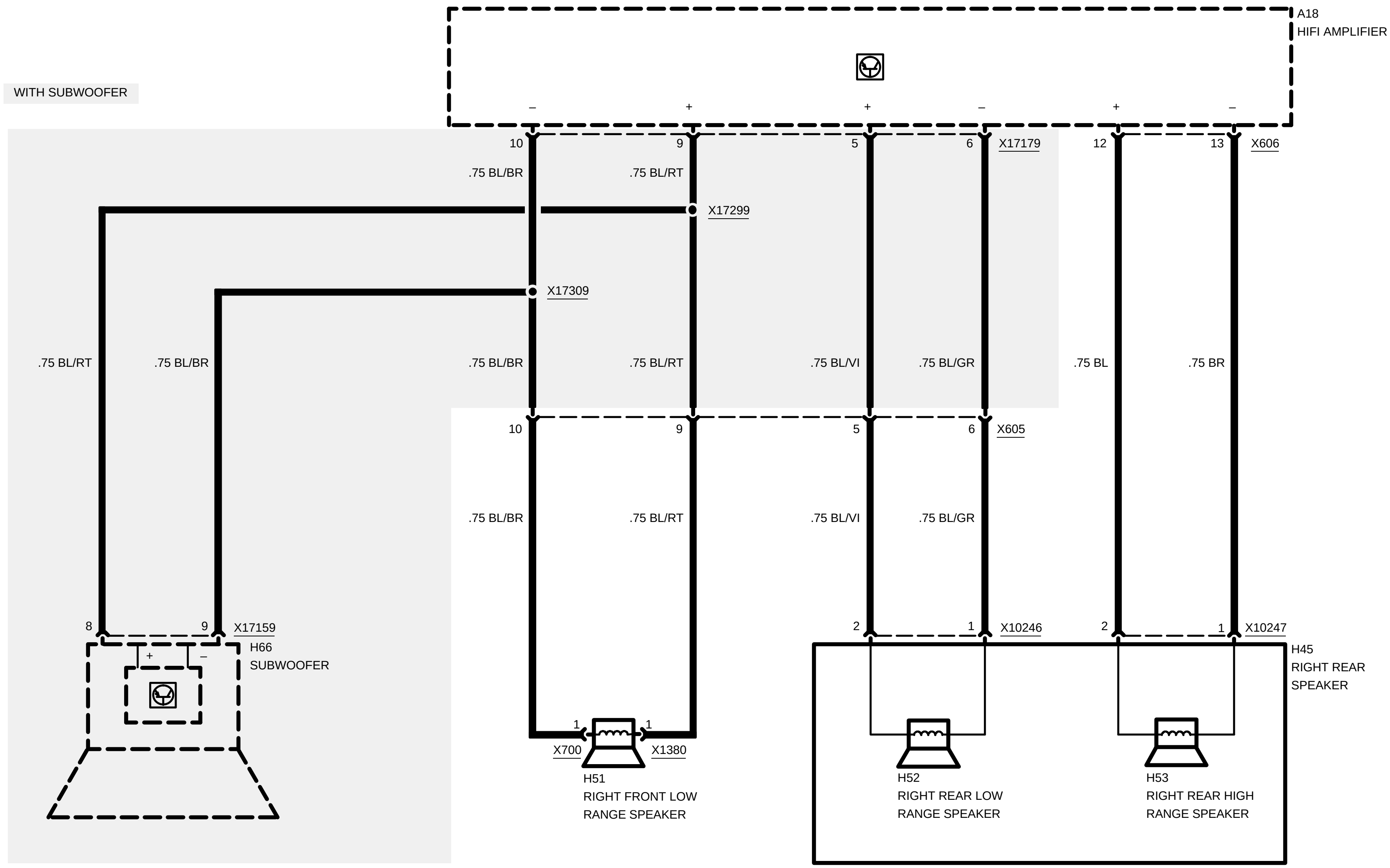


BMW 3 compact

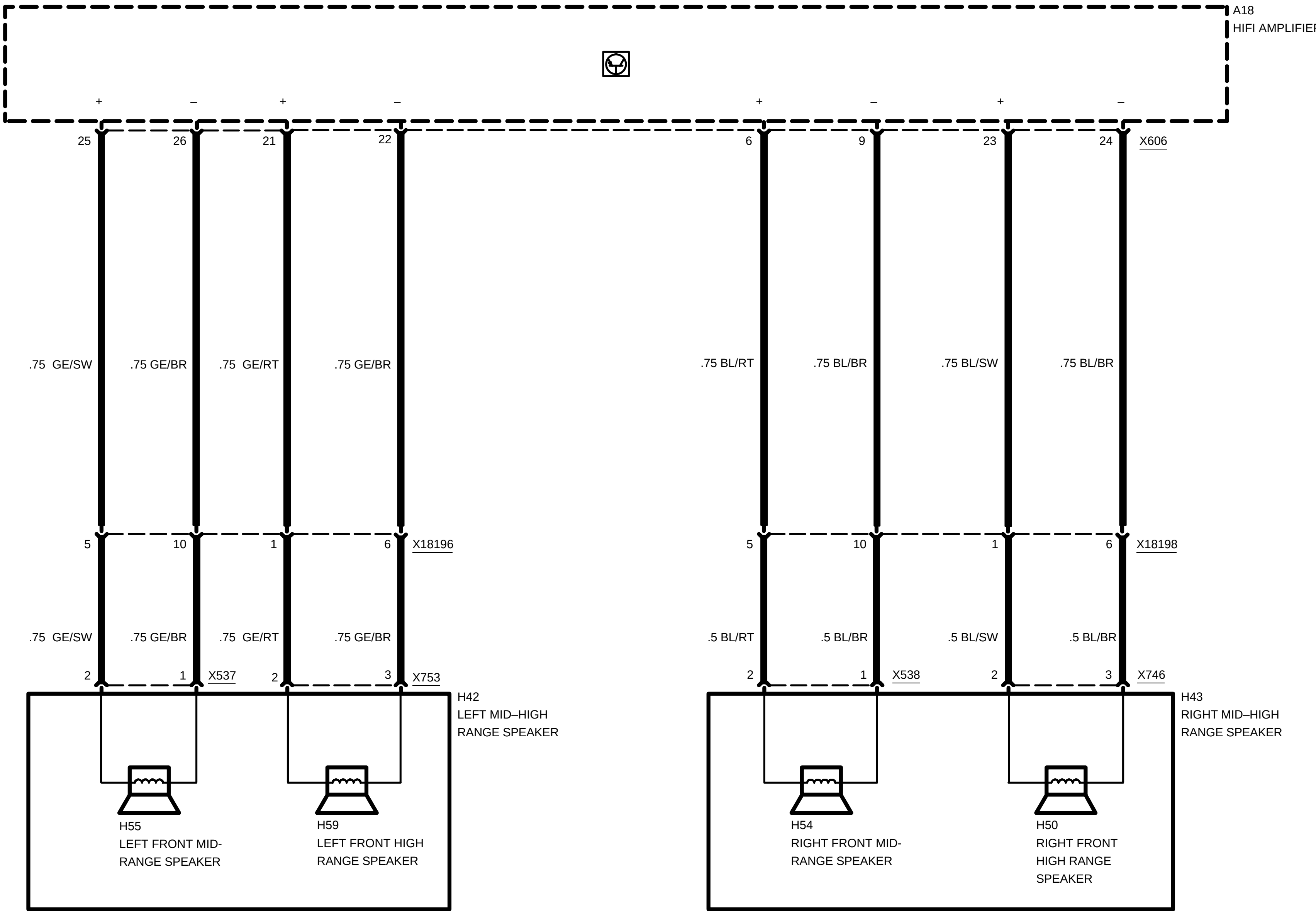
RADIO/HIFI



RADIO/HIFI

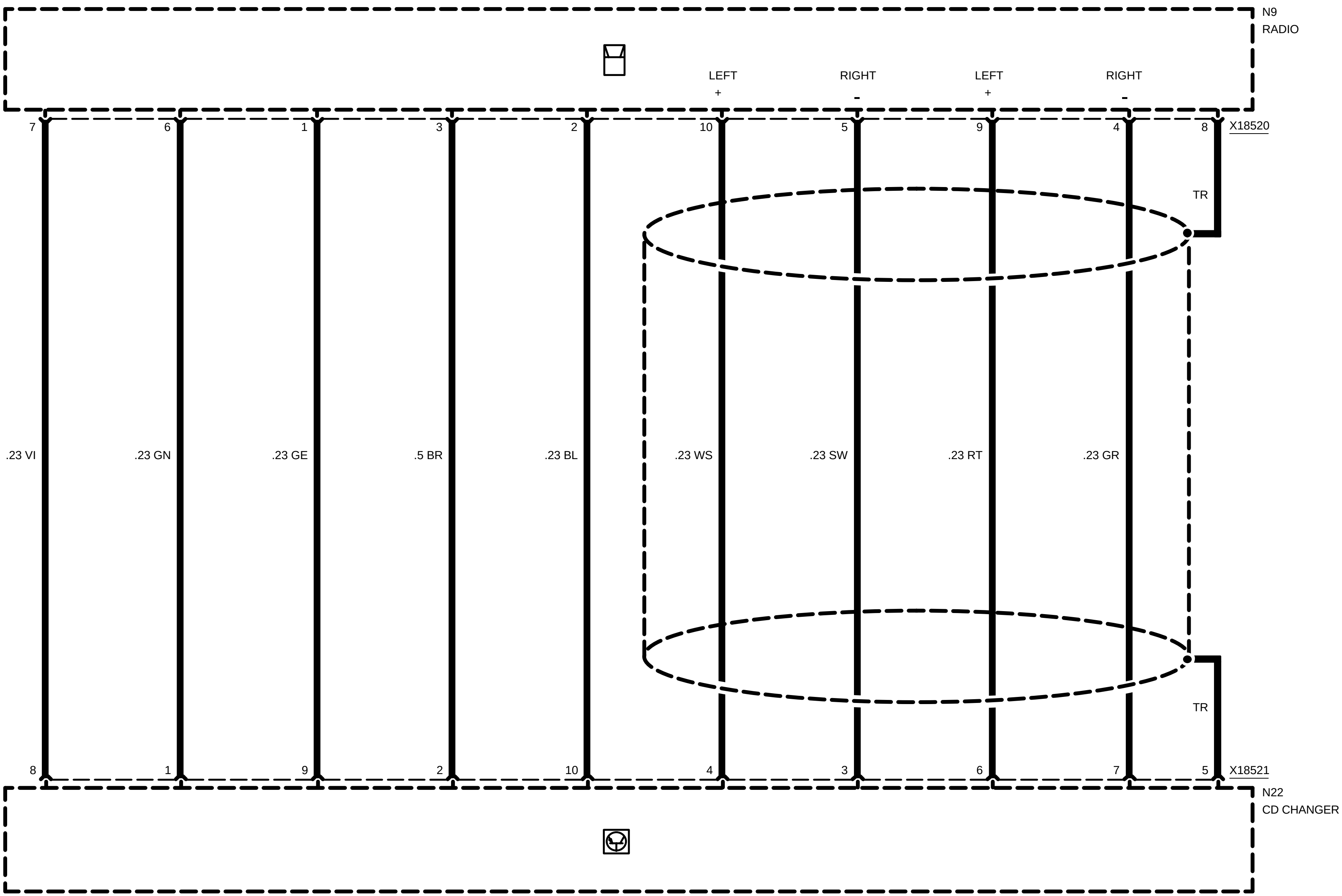

A18
HIFI AMPLIFIER
WITH SUBWOOFER
10
9
5
6
X17179
12
13
X606
.75 BL/BR
.75 BL/RT
X17299
X17309
.75 BL/RT
.75 BL/BR
.75 BL/BR
.75 BL/RT
.75 BL/VI
.75 BL/GR
.75 BL
.75 BR
X605
.75 BL/BR
.75 BL/RT
.75 BL/VI
.75 BL/GR
8
9
X17159
H66
SUBWOOFER
X10246
X10247
H45
RIGHT REAR
SPEAKER
X700
X1380
H51
RIGHT FRONT LOW
RANGE SPEAKER
H52
RIGHT REAR LOW
RANGE SPEAKER
H53
RIGHT REAR HIGH
RANGE SPEAKER

RADIO/HIFI


A18
HIFI AMPLIFIER
+
–
+
–
+
–
+
–
25
26
21
22
6
9
23
24
X606
.75 GE/SW
.75 GE/BR
.75 GE/RT
.75 GE/BR
.75 BL/RT
.75 BL/BR
.75 BL/SW
.75 BL/BR
5
10
1
6
X18196
5
10
1
6
X18198
.75 GE/SW
.75 GE/BR
.75 GE/RT
.75 GE/BR
.5 BL/RT
.5 BL/BR
.5 BL/SW
.5 BL/BR
2
1
X537
2
3
X753
2
1
X538
2
3
X746
H42
LEFT MID–HIGH
RANGE SPEAKER
H43
RIGHT MID–HIGH
RANGE SPEAKER
H55
LEFT FRONT MID-
RANGE SPEAKER
H59
LEFT FRONT HIGH
RANGE SPEAKER
H54
RIGHT FRONT MID-
RANGE SPEAKER
H50
RIGHT FRONT
HIGH RANGE
SPEAKER

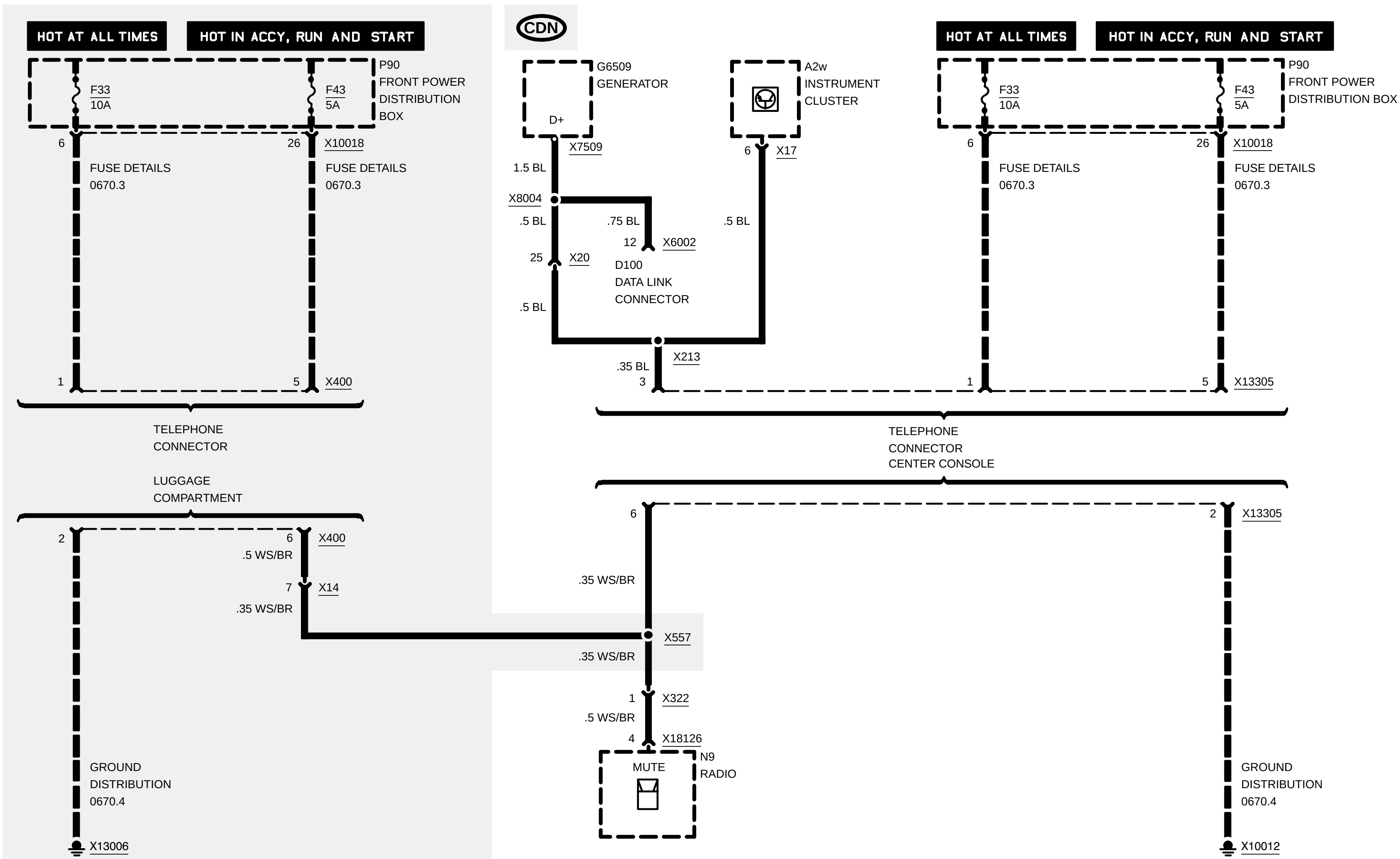
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RADIO/HIFI



6561.0 CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS

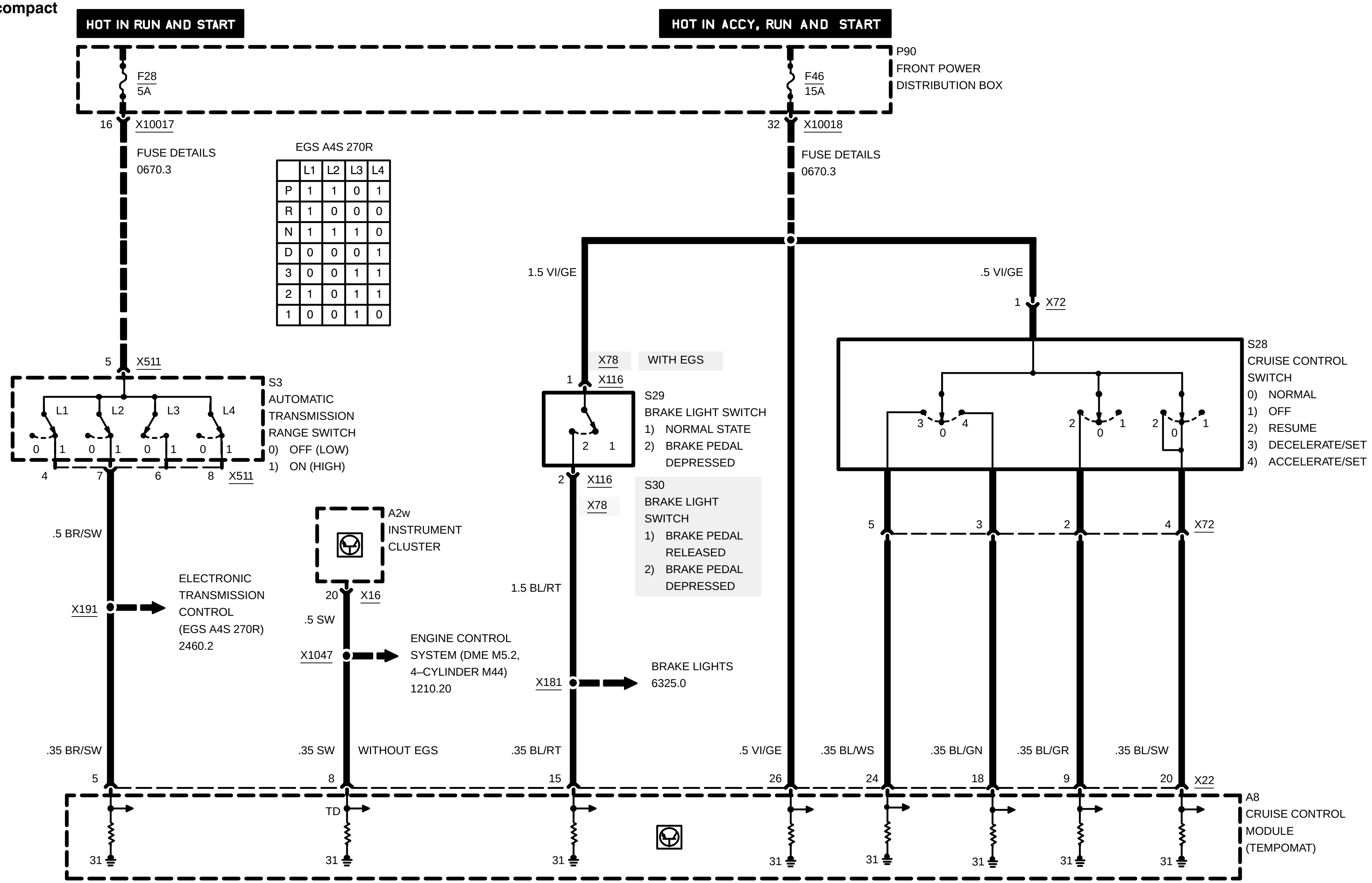


6571.0 CRUISE CONTROL (TEMPOMAT)

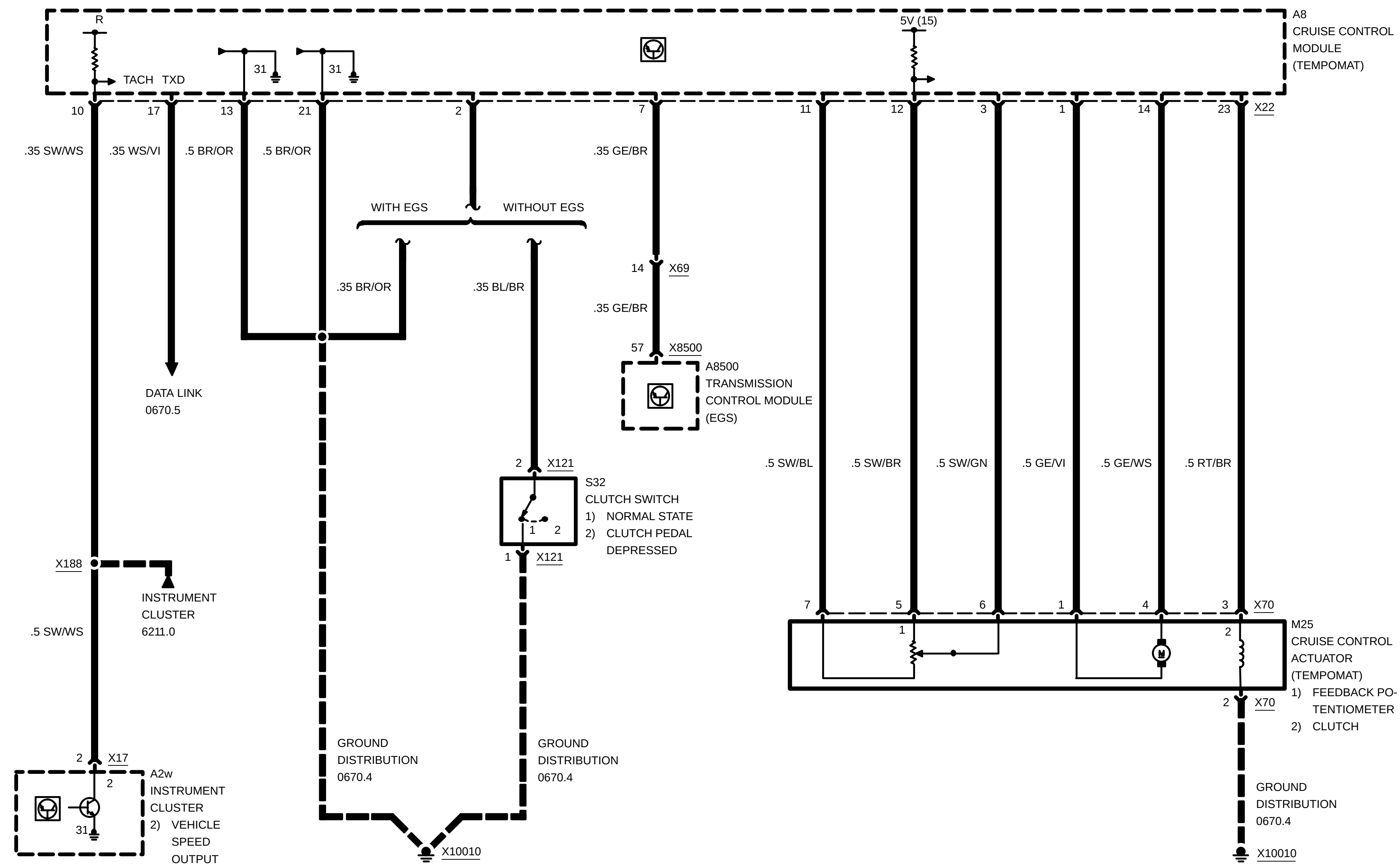
BMW 3 compact

EGS A4S 270R

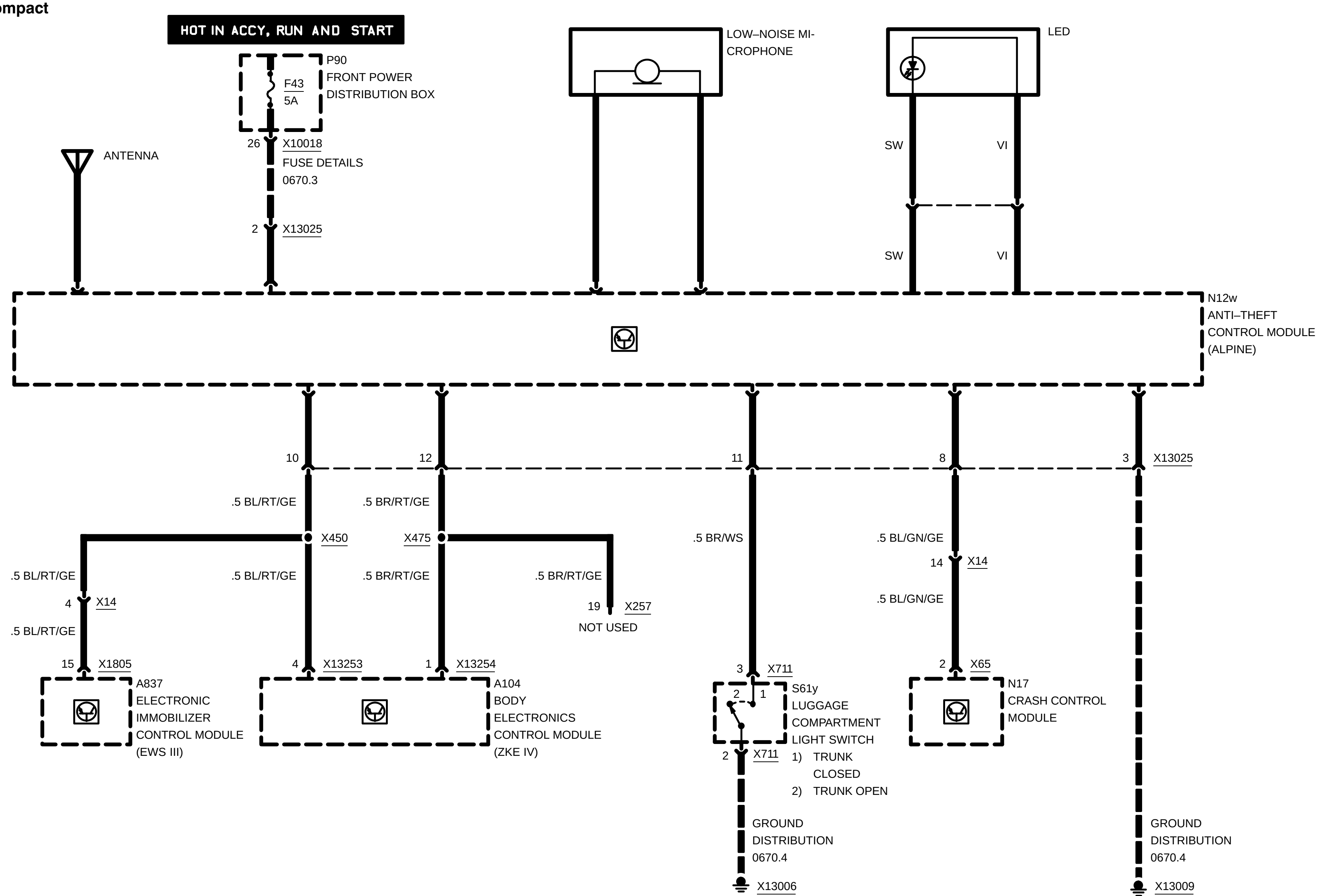
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P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0



CRUISE CONTROL (TEMPOMAT)

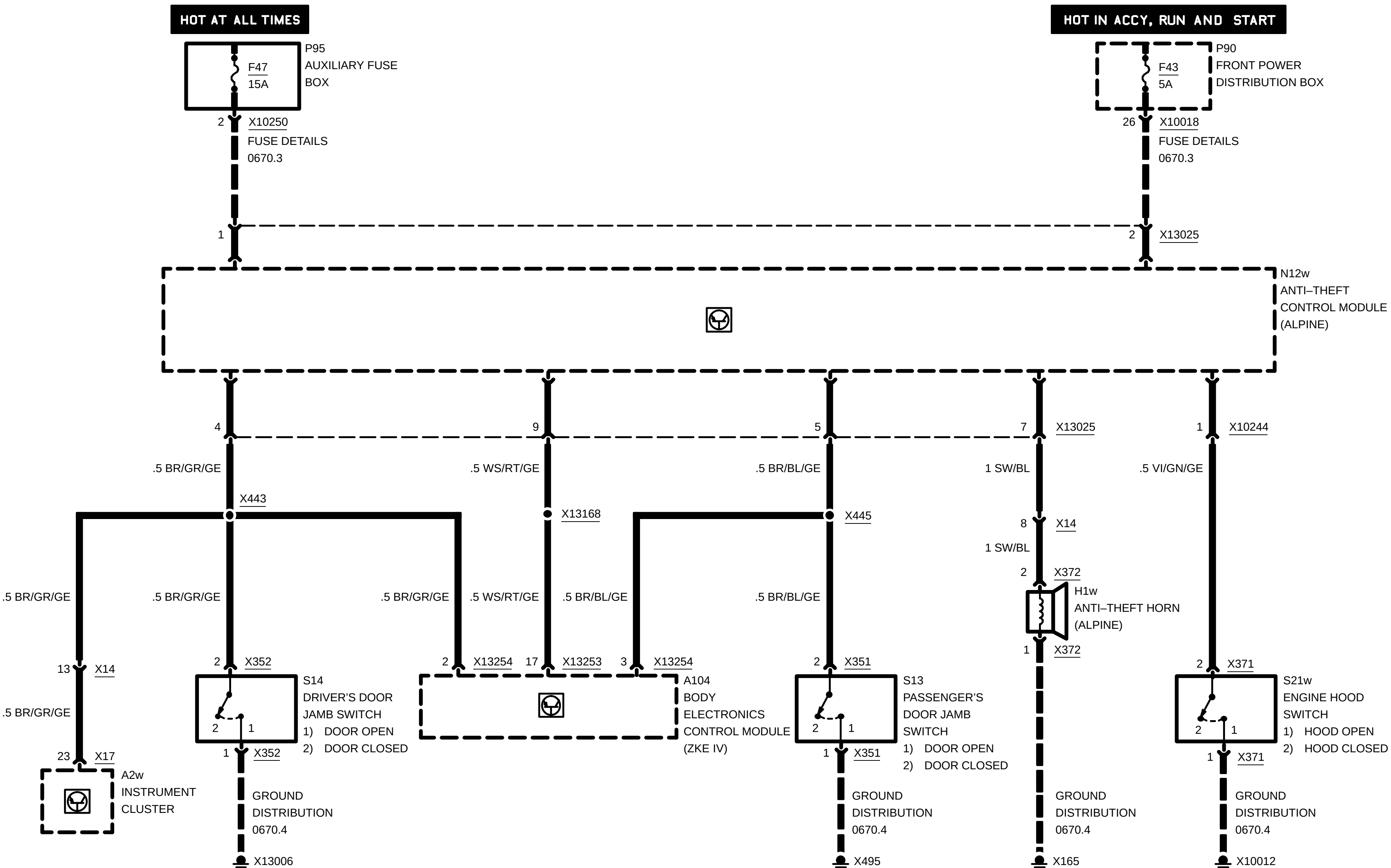


6575.2 ANTI–THEFT SYSTEM (ALPINE)

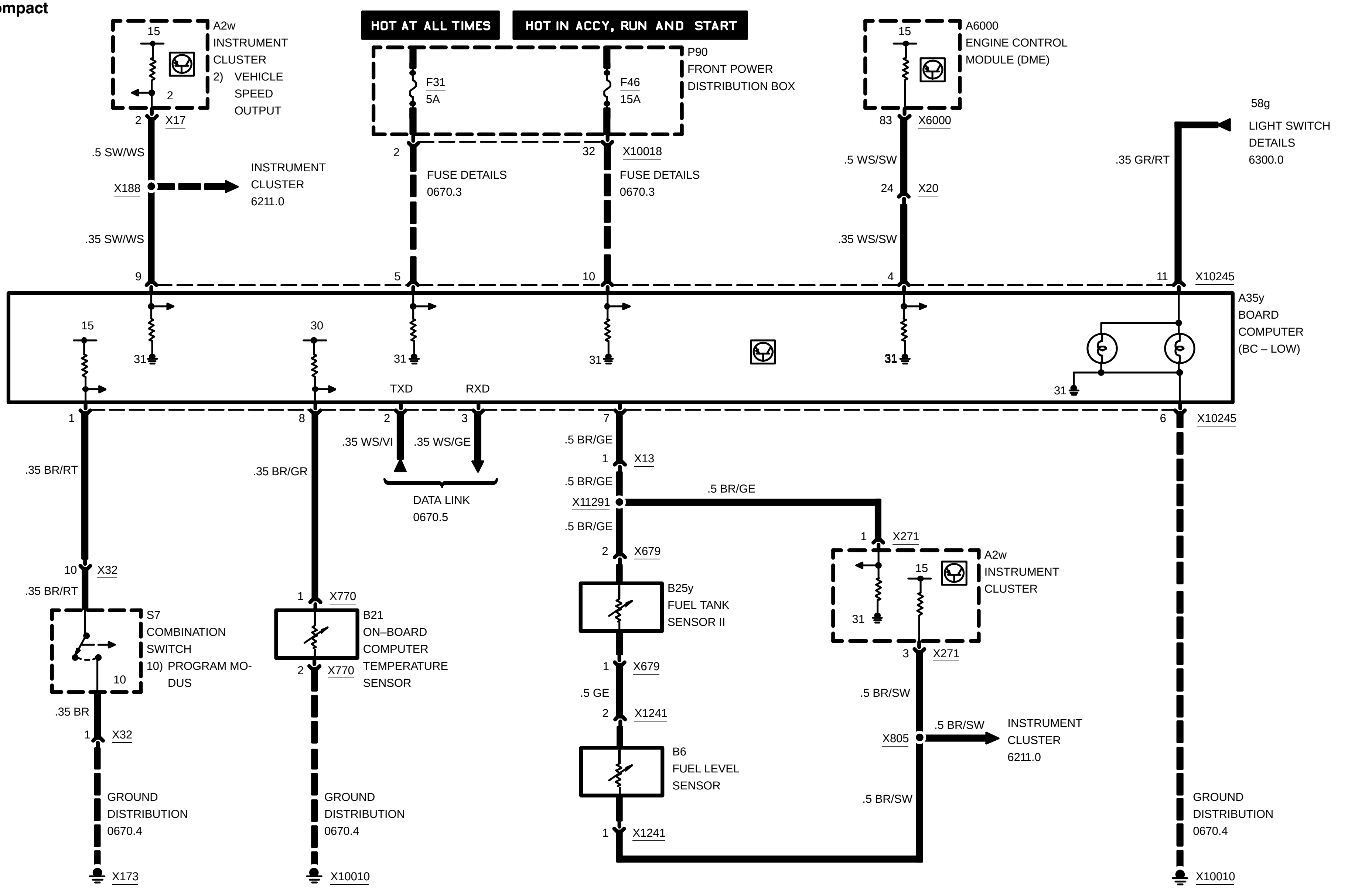


BMW 3 compact

ANTI–THEFT SYSTEM (ALPINE)



6581.3 BOARD COMPUTER (BC – LOW)



BMW 3 compact

7000.0 COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	17-3	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below rear seat	01-3	
A18	HIFI AMPLIFIER	in LH side of luggage compartment behind trim panel	00-2	
A35y	BOARD COMPUTER (BC – LOW)	center of dash center console		
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	in lift gate	02-1	
A51	WIPER/WASHER MODULE	behind glove box	02-3	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box	01-2	
A56	TILT/SLIDE SUNROOF CONTROL ASSEMBLY	in roof panel	00-3	
A64	WIPER/WASHER MODULE (LOW II)	behind glove box	02-3	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box	01-1	
A107	INTEGRATED HEATING– AND CLIMATE CONTROL MODULE	center of dash center console	02-2	
A110	DIGITAL CLOCK	center of dash center console		
A113	SEAT OCCUPANCY DETECTOR	under RH front seat		
A837	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)	below LH side of dash		
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment	00-1	

BMW 3 compact

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper	06-3	
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	06-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	below LH side of rear seat	13-1	
B8y	PRESSURE SWITCH	near RH headlight assembly		
B9	INTERMEDIATE PRESSURE SWITCH	near RH headlight assembly		
B10	VEHICLE SPEED SENSOR	on differential	26-1	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell	17-1	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	06-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment top of brake fluid reservoir	09-2	
B21	ON–BOARD COMPUTER TEMPERATURE SENSOR	in the engine compartment lower LH side of engine compartment	14-1	
B25y	FUEL TANK SENSOR II	below RH side of rear seat		
B72	FUEL TANK PRESSURE SENSOR	RH rear wheel well, behind trim panel	29-1	
B78	DRIVER’S SIDE IMPACT SENSOR	LH B–pillar	29-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B79	PASSENGER'S SIDE IMPACT SENSOR	RH B–pillar		
B6203	CRANKSHAFT POSITION/RPM SENSOR	under RH front of car rear of radiator	08-1	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine near oil level stick	09-3	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine	10-2	
B6217	HOT FILM AIR MASS METER	top front of engine	09-3	
B6231	OIL PRESSURE SWITCH	LH front of engine below intake manifold	10-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	behind RH fresh air cowl below intake manifold	28-1	
B6240	KNOCK SENSOR	top front of engine	26-2	
B9508	PRESSURE SWITCH	near RH headlight assembly	08-3	
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	under center of car	25-1	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	under center of car	26-3	
C101	CONTACT RING	top of steering column	16-1	
D100	DATA LINK CONNECTOR	rear LH side of engine compartment	09-2	
D110	OBD II CONNECTOR	center console right	24-3	
E7	LEFT HEADLIGHT	front LH side of engine compartment		
E8	RIGHT HEADLIGHT	front RH side of engine compartment		
E9	REAR DEFOGGER I	on lift gate		

BMW 3 compact

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E11	LEFT HIGH BEAM LIGHT	near LH headlight assembly		
E12	RIGHT HIGH BEAM LIGHT	near RH headlight assembly		
E13	LEFT LOW BEAM LIGHT	near LH headlight assembly		
E14	RIGHT LOW BEAM LIGHT	near RH headlight assembly		
E15	LEFT PARK LIGHT	front of vehicle		
E19	RIGHT PARK LIGHT	front of vehicle		
E26	LEFT FOG LIGHT	under LH front bumper	06-2	
E27	RIGHT FOG LIGHT	under RH front bumper	06-2	
E28	FRONT CIGAR LIGHTER	center console		
E29	FRONT CIGAR LIGHTER LIGHT	center console		
E32z	REAR CENTER INTERIOR LIGHT	in roof panel		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	in roof panel	00-3	
E35	DRIVER'S MAKE–UP MIRROR LIGHT	in sun visor	24-1	
E36	PASSENGER'S MAKE–UP MIRROR LIGHT	in sun visor	15-1	
E42	GLOVE BOX LIGHT	RH side of glove box		
E43	LEFT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	07-1	
E44	RIGHT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	07-1	
E46	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in LH rear side of luggage compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E47	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in RH rear side of luggage compartment		
E51	LEFT WASHER JET HEATER	on underside of engine hood		
E52	RIGHT WASHER JET HEATER	on underside of engine hood		
E56	DRIVER'S SEATBACK HEATER	in upper LH front seatback		
E57	DRIVER'S SEAT HEATER	under LH front seat		
E58	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	in upper RH front seatback		
E61	LEFT FRONT FOOTWELL LIGHT	LH footwell	24-3	
E62	RIGHT FRONT FOOTWELL LIGHT	right footwell		
E82	TRANSMISSION POSITION INDICATOR LIGHT	center console		
E97	LIGHT SWITCH ILLUMINATION	LH side of dash		
E98	FOG LIGHT SWITCH ILLUMINATION	on instrument cluster		
E103	CLIMATE CONTROL SWITCH ILLUMINATION	center console		
F97	FUSIBLE LINK	rear of engine compartment		
G1	BATTERY	rear RH side of engine compartment	03-3	
G5	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel	16-1	
G6	PASSENGER'S AIR BAG GAS GENERATOR	behind glove box above	18-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	driver's seat right		
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	passenger's seat left		
G14	LEFT SIDE AIR BAG GAS GENERATOR	in driver's door	29-2	
G15	RIGHT SIDE AIR BAG GAS GENERATOR	in passenger's door		
G6509	GENERATOR	front LH side of engine compartment	03-1	
H1w	ANTI–THEFT HORN (ALPINE)	in RH front bumper	07-3	
H2	LEFT HORN	front of engine compartment	13-3	
H3	RIGHT HORN	front of engine compartment	13-3	
H4	RIGHT FRONT TURN LIGHT	RH front of vehicle		
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	LH front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	RH front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	LH front of vehicle		
H10	CHIME MODULE	above LH footwell dash panel	24-3	
H24	LEFT BRAKE LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H25	LEFT TAIL LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H27	LEFT BACK UP LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H28	RIGHT BACK UP LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H30	RIGHT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H31	RIGHT BRAKE LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf		
H37	LEFT TAIL LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H39	RIGHT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H42	LEFT MID–HIGH RANGE SPEAKER	in upper LH front door		
H43	RIGHT MID–HIGH RANGE SPEAKER	in upper RH front door		
H45	RIGHT REAR SPEAKER	in RH side of luggage compartment		
H46	LEFT REAR SPEAKER	in LH side of luggage compartment	23-2	
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A–pillar		
H52	RIGHT REAR LOW RANGE SPEAKER	under rear window shelf		
H53	RIGHT REAR HIGH RANGE SPEAKER	under rear window shelf		
H54	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		
H55	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H56	LEFT REAR HIGH RANGE SPEAKER	under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	under rear window shelf		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H58	LEFT FRONT LOW RANGE SPEAKER	in lower LH A–pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
H66	SUBWOOFER	at back of rear window shelf		
H91	RIGHT LUGGAGE COMPARTMENT LIGHT	right rear light assembly		
I1008	SEAT MAT	passenger's seat		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	12-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	12-2	
K9	UNLOADER RELAY, TERMINAL 15	below LH side of dash	20-1	
K13	REAR DEFOGGER RELAY	rear LH side of engine compartment in Power Distribution Box	12-1	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	12-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	12-1	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	12-1	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	12-1	
K45	FOLDING SUNROOF COMFORT RELAY	below LH side of dash	18-1	
K46	HIGH BEAM LIGHT RELAY	below LH side of dash	18-1	
K46z	DAY LIGHT RELAY MODULE	below LH side of dash	18-1	
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	12-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	12-2	
K125	ABS PUMP MOTOR RELAY, TIMED	Power Distribution Box rear LH side of engine compartment	12-1	

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	12-3	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	12-3	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	12-3	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment	27-1	
L1	EWS TOROIDAL COIL	at ignition switch		
M2	FUEL PUMP	below RH side of rear seat	14-2	
M3	WIPER MOTOR	rear of engine compartment below center of cowl	09-1	
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	07-3	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	14-3	
M9	AUXILIARY FAN MOTOR	behind front grille behind trim panel	11-1	
M12	DRIVER'S DOOR LOCK MOTOR	in lower LH front door behind trim panel		
M13	PASSENGER'S DOOR LOCK MOTOR	in lower RH side of front door behind trim panel		
M16	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment behind trim panel	29-1	
M17	LUGGAGE COMPARTMENT LOCK MOTOR	rear side of luggage compartment behind trim panel	23-1	
M21	DRIVER'S WINDOW MOTOR	LH front door behind door panel	22-1	
M23	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	21-2	
M24z	FOLDING SUNROOF MOTOR	in roof panel		
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	front LH side of engine compartment	09-3	
M30	BLOWER MOTOR	rear of engine compartment behind RH fresh air cowl		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M50 ..	DRIVER'S SEAT CUSHION TILT MOTOR	under driver's seat		
M51 ..	DRIVER'S SEAT MOVEMENT MOTOR	under driver's seat		
M52 ..	DRIVER'S SEAT HEIGHT MOTOR	under driver's seat		
M53 ..	DRIVER'S SEATBACK RECLINER MOTOR	under driver's seat		
M58 ..	PASSENGER'S SEATBACK RECLINER MOTOR	under passenger's seat		
M59 ..	PASSENGER'S SEAT HEIGHT MOTOR	under passenger's seat		
M60 ..	PASSENGER'S SEAT MOVEMENT MOTOR	under passenger's seat		
M61 ..	PASSENGER'S SEAT CUSHION TILT MOTOR	under passenger's seat		
M93 ..	AUXILIARY THROTTLE POSITION MOTOR (ADS)	LH side of engine compartment	27-3	
M111 .	FRESH AIR RECIRCULATION MOTOR	behind center of dashboard		
M6510	STARTER	rear LH side of engine compartment		
N8 ...	ANTENNA AMPLIFIER AM/FM	on lift gate	22-3	
N9 ...	RADIO	center console		
N12w .	ANTI–THEFT CONTROL MODULE (ALPINE)	RH side of dash behind glove box		
N17 ..	CRASH CONTROL MODULE	behind instrument cluster	18-1	
N22 ..	CD CHANGER	in LH forward side of luggage compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
P90	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	03-2	
P95	AUXILIARY FUSE BOX	below LH side of dash	20-1	
P97	AUXILIARY FUSE BOX	below LH side of dash	18-1	
R11	BLOWER RESISTORS	behind center of dashboard	18-2	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment	10-2	
R6255z	THROTTLE POSITION SENSOR (ASC)	LH side of engine compartment	27-2	
S2	IGNITION SWITCH	LH side of dash	16-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	19-1	
S4	HORN SWITCH	on steering wheel	16-1	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console		
S7	COMBINATION SWITCH	LH side of dash LH side of steering column above	16-3	
S8	LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	RH front door jamb	21-1	
S14	DRIVER'S DOOR JAMB SWITCH	front LH door pillar	21-1	
S17	MIRROR CONTROL SWITCH	in upper LH front door		
S18	HAZARD SWITCH	below front of console	19-1	
S21w	ENGINE HOOD SWITCH	front RH side of engine compartment	14-3	
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above	16-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	15-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S30	BRAKE LIGHT SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	15-3	
S31	PARK BRAKE SWITCH	center console on rear of park brake lever	15-2	
S32	CLUTCH SWITCH	LH footwell underside of steering column	15-3	
S36y	DOUBLE TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	08-3	
S37	GLOVE BOX LIGHT SWITCH	in glove box		
S38	TILT/SLIDE SUNROOF SWITCH (SHD)	in roof panel		
S47	DRIVER'S DOOR LOCK SWITCH	LH front door in door at key lock assembly		
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door in door at key lock assembly		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	under driver's seat		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	center console		
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console	19-1	
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	under passenger's seat	19-1	
S58	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S61y	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of luggage compartment lid	22-2	
S75	BLOWER SWITCH	center of dash		
S77	DRIVER'S MAKE–UP MIRROR SWITCH	above LH sun visor in sun visor bracket	24-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S78	PASSENGER'S MAKE–UP MIRROR SWITCH	above RH sun visor in sun visor bracket	15-1	
S82y	FOG LIGHT SWITCH	on instrument cluster		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever	19-2	
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever	19-2	
S198	JET HEATER THERMOSWITCH	front LH side of engine compartment	24-2	
S218	REAR DEFOGGER SWITCH	center console		
S235	STARTER IMMOBILIZATION SWITCH	LH footwell underside of steering column	23-3	
S238	FOLDING SUNROOF SWITCH	in roof panel		
S302	CENTRAL LOCKING SWITCH	center console near gearshift lever	19-2	
S530	IHKS CONTROL SWITCH	center of dash		
S531	TEMPERATURE WHEEL SWITCH	center of dash		
S8503	PROGRAM SWITCH	center console		
S8507	KICK–DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	under front of car LH side of transmission	25-3	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment	10-3	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment	10-3	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment	10-3	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment	10-3	
X0	B+ JUNCTION POINT	rear LH side of engine compartment	03-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X2	BATTERY B+ START POINT	rear LH side of engine compartment	03-2	
X9	B+ JUNCTION POINT	rear LH side of engine compartment	03-2	
X13	(30 PINS, BLACK)	LH side of LH footwell	16-2	00-4
X14	(30 PINS, NATURAL)	LH side of LH footwell	16-2	00-4
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	17-3	00-2
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	17-3	00-2
X20	(25 PINS, BLACK)	rear LH side of engine compartment	09-2	04-2
X22	(26 PINS, GRAY)	behind glove box	01-2	00-2
X32	(12 PINS, NATURAL)	LH footwell underside of steering column	20-2	02-4
X33	(12 PINS, BLACK)	LH footwell underside of steering column	20-2	02-4
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	20-2	02-4
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X56	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X58	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X63	(9 PINS, BLACK)	below LH side of dash		03-4
X64	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X65	(9 PINS, BLACK)	below LH side of dash		03-4

BMW 3 compact

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X69	(25 PINS, GRAY)	rear LH side of engine compartment	09-2	04-2
X70	(7 PINS, BLACK)	front LH side of engine compartment	09-3	05-2
X72	(6 PINS, NATURAL)	LH footwell underside of steering column	20-2	03-6
X74	(50 PINS, YELLOW)	below rear seat	01-3	04-1
X78	(4 PINS, BLACK)	LH footwell on clutch pedal support bracket behind LH footwell trim	15-3	03-1
X85	(3 PINS, BLACK)	rear LH side of engine compartment	11-3	05-3
X105	(2 PINS, BLACK)	on underside of engine hood		
X106	(2 PINS, BLACK)	on underside of engine hood		
X107	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	07-3	
X111	(2 PINS, BLACK)	rear LH side of engine compartment top of brake fluid reservoir	09-2	
X113	(3 PINS, GRAY)	above RH front wheel well behind RH front wheel	07-2	09-2
X114	(3 PINS, GRAY)	above LH front wheel well behind LH front wheel	07-2	09-2
X116	(2 PINS, BLACK)	LH footwell on clutch pedal support bracket behind LH footwell trim	15-3	
X118	(2 PINS, BLACK)	above LH front wheel well behind LH front wheel	07-2	
X121	(2 PINS, WHITE)	LH footwell underside of steering column	15-3	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	14-3	
X128	(3 PINS, BLACK)	LH front of vehicle		05-3
X132	(2 PINS, BLACK)	front of engine compartment		
X133	(2 PINS, BLACK)	front of engine compartment		
X137	(3 PINS, BLACK)	RH front of vehicle		05-3
X142	(3 PINS, GRAY)	under rear of car LH side of on differential		09-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X143	(3 PINS, GRAY)	under rear of car RH side of RH footwell	06-1	09-2
X163	(3 PINS, BLACK)	front RH side of engine compartment	07-3	05-3
X165	GROUND	front LH side of engine compartment	04-1	
X168	(1 PIN, ——)	top of steering column		
X173	GROUND	below LH side of dash	04-3	
X256	(26 PINS, BLACK)	ahead of RH front door in lower RH A–pillar	21-2	03-5
X257	(26 PINS, BLACK)	ahead of LH front door in lower LH A–pillar		03-5
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	17-3	01-3
X272	(2 PINS, WHITE)	under roof center panel		
X285	(15 PINS, BLUE)	below RH side of dash behind glove box	02-3	00-3
X292	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X295	(8 PINS, BLACK)	LH footwell underside of steering column	20-2	03-3
X311	(3 PINS, BLACK)	underside of luggage compartment lid left	23-1	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	29-1	
X315	(2 PINS, BLACK)	underside of luggage compartment lid left	23-1	
X316	(4 PINS, YELLOW)	center console near gearshift lever	19-2	07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly		01-4
X319	(8 PINS, BLACK)	in LH side of luggage compartment behind trim panel	22-3	01-4
X322	(6 PINS, BLACK)	below LH side of dash	20-1	03-6
X324	(4 PINS, YELLOW)	center console near gearshift lever	19-2	07-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl	09-1	06-3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X336	(6 PINS, NATURAL)	under roof center panel	00-3	03-6
X351	(2 PINS, BLACK)	in upper RH B–pillar		
X352	(2 PINS, BLACK)	in upper LH B–pillar	28-3	
X371	(2 PINS, BLACK)	front RH side of engine compartment	14-3	
X372	(2 PINS, GRAY)	in RH front bumper		
X379	(1 PIN, NATURAL)	on lift gate		
X380	(1 PIN, NATURAL)	on lift gate		
X381	(3 PINS, BLACK)	under roof center panel	24-1	01-1
X382	(3 PINS, BLACK)	above RH sun visor	15-1	01-1
X383	(2 PINS, BLACK)	under rear of car LH side of on differential	26-1	
X389	(2 PINS, BLACK)	rear LH side of engine compartment		
X390	(2 PINS, BLACK)	RH side of dash behind glove box		
X400	(8 PINS, BLACK)	in LH rear side of luggage compartment		01-4
X401	(1 PIN, BLACK)	above LH sun visor	24-1	
X402	(1 PIN, BLACK)	above RH sun visor	15-1	
X413	(3 PINS, BLACK)	at back of rear window shelf		01-1
X423	(1 PIN, ——)	below center console on rear of park brake lever	15-2	
X424	(1 PIN, WHITE)	in LH side of luggage compartment behind trim panel	22-3	
X494	GROUND	under driver’s seat left	29-3	
X495	GROUND	RH side of glove box	04-2	
X498	GROUND	under driver’s seat left	29-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X511	(8 PINS, BLACK)	center console near gearshift lever	19-1	01-4
X516	(5 PINS, BLACK)	center console	19-1	02-6
X521	(6 PINS, BLUE)	center console		04-3
X522	(3 PINS, NATURAL)	above LH footwell dash panel	24-3	04-4
X531	(1 PIN, NATURAL)	center console near gearshift lever		
X532	(2 PINS, BLACK)	center console near gearshift lever		
X537	(3 PINS, BLACK)	LH front door behind door panel	22-1	01-1
X538	(3 PINS, BLACK)	RH front door behind door panel	21-2	01-1
X540	(2 PINS, BLACK)	LH side of glove box	18-3	
X541	(3 PINS, BLACK)	LH side of glove box	18-3	01-1
X603	(12 PINS, BLACK)	under driver's seat		02-4
X604	(12 PINS, BLACK)	under passenger's seat		02-4
X605	(12 PINS, BLACK)	in LH side of luggage compartment behind trim panel	00-2	08-3
X606	(26 PINS, BLACK)	in LH side of luggage compartment behind trim panel	00-2	00-2
X623	(4 PINS, BLACK)	in upper LH front door behind door panel		07-1
X624	(4 PINS, BLACK)	in upper RH front door behind door panel	21-2	07-1
X625	(6 PINS, BLACK)	LH front door behind door panel	22-1	02-1
X627	(2 PINS, BLACK)	in roof panel		
X638	(2 PINS, GRAY)	below RH side of rear seat	14-2	
X641	(6 PINS, BLACK)	RH front door behind door panel		06-5
X643	(4 PINS, YELLOW)	in roof panel		07-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X651	(6 PINS, YELLOW)	center console		04-3
X658	(6 PINS, YELLOW)	center console		04-3
X660	(6 PINS, BLACK)	LH front door behind door panel	21-3	06-5
X679	(2 PINS, YELLOW)	below RH side of rear seat	14-2	
X700	(1 PIN, ——)	behind RH footwell speaker grille		
X701	(1 PIN, ——)	behind LH footwell kickpanel		
X709	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	07-1	
X710	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	07-1	
X711	(3 PINS, BLACK)	underside of luggage compartment lid	22-2	01-1
X713	(2 PINS, BLACK)	under rear of car LH side of on differential	06-1	
X726	(2 PINS, ——)	under driver's seat		
X727	(2 PINS, ——)	under driver's seat		
X728	(2 PINS, ——)	under driver's seat		
X729	(2 PINS, ——)	under driver's seat		
X732	(4 PINS, BLACK)	under LH front seat under carpet		03-1
X733	(4 PINS, BLACK)	under LH front seat under carpet		03-1
X734	(2 PINS, ——)	under passenger's seat		
X735	(2 PINS, ——)	under passenger's seat		
X736	(2 PINS, ——)	under passenger's seat		
X737	(2 PINS, ——)	under passenger's seat		
X740	(4 PINS, BLACK)	under RH front seat	20-3	03-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X741	(4 PINS, BLACK)	under RH front seat	20-3	03-1
X742	(2 PINS, YELLOW)	RH front door in door at key lock assembly		
X744	(4 PINS, GRAY)	RH front door behind door panel	21-2	08-1
X745	(3 PINS, BLACK)	right footwell		01-1
X746	(3 PINS, NATURAL)	RH front door behind door panel		01-1
X747	(2 PINS, YELLOW)	LH front door behind door panel	21-3	
X748	(3 PINS, BLACK)	LH footwell	24-3	01-1
X749	(4 PINS, GRAY)	LH front door behind door panel	22-1	08-1
X753	(3 PINS, NATURAL)	LH front door		01-1
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	06-2	
X769	(2 PINS, WHITE)	in the engine compartment near RH headlight assembly	06-2	
X770	(2 PINS, YELLOW)	in the engine compartment near LH headlight assembly	14-1	
X771	(2 PINS, BLACK)	RH side of LH footwell	17-1	
X778	(4 PINS, BLACK)	in LH front seat belt buckle		07-1
X782	(3 PINS, ORANGE)	LH side of glove box	18-3	09-1
X783	(3 PINS, BLACK)	underside of steering column		09-1
X816	(1 PIN, ——)	rear of engine compartment behind RH fresh air cowl		
X817	(1 PIN, ——)	rear of engine compartment behind RH fresh air cowl		
X861	GROUND	LH side of engine compartment	05-3	
X904	(4 PINS, BLACK)	behind center of dashboard	18-2	03-1
X905	(7 PINS, BLACK)	behind center of dashboard		08-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1014	(1 PIN, BLACK)	center console near gearshift lever		
X1148	(2 PINS, BLACK)	front LH side of engine compartment	24-2	
X1165	GROUND	below LH side of dash	04-3	
X1166	GROUND	RH side of glove box	04-2	
X1170	(42 PINS, BLACK)	behind glove box	01-2	07-3
X1176	(25 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower	11-3	04-2
X1178	(2 PINS, WHITE)	below center console LH side of gearshift selector	19-3	
X1193	(3 PINS, BLACK)	center console RH side of gearshift selector		01-1
X1241	(2 PINS, BLACK)	below LH side of rear seat	13-1	
X1245	(1 PIN, BLACK)	above LH sun visor		
X1246	(1 PIN, BLACK)	above RH sun visor		
X1292	(4 PINS, NATURAL)	center console near gearshift lever		07-1
X1380	(1 PIN, ——)	behind RH footwell speaker grille		
X1381	(1 PIN, ——)	behind LH footwell kickpanel		
X1441	GROUND	under RH rear seat	01-3	
X1517	(3 PINS, BLACK)	center of dash center console		06-2
X1518	(8 PINS, BLACK)	behind center of dashboard		01-4
X1522	(2 PINS, BLACK)	behind center of dashboard		
X1588	(2 PINS, BLACK)	below LH side of dash	18-1	
X1646	(3 PINS, BLACK)	on lift gate		01-1
X1764	(3 PINS, BLACK)	below LH side of dash		01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1805	(15 PINS, NATURAL)	below LH side of dash		00-3
X1814	(9 PINS, BLACK)	below LH side of dash		03-4
X1843	(1 PIN, BLACK)	on lift gate		
X1844	(1 PIN, WHITE)	on lift gate		
X1845	(2 PINS, BLACK)	on lift gate		
X1846	(3 PINS, YELLOW)	on lift gate		01-1
X1847	(3 PINS, BLACK)	on lift gate		07-2
X1883	(3 PINS, YELLOW)	in driver's door	29-2	07-2
X1884	(3 PINS, YELLOW)	in passenger's door		07-2
X1885	(3 PINS, BLACK)	under driver's seat left	29-3	01-1
X1886	(3 PINS, BLACK)	under passenger's seat right		01-1
X1890	(3 PINS, BLACK)	front of engine compartment on auxiliary fan	11-1	06-4
X1892	(3 PINS, BLACK)	in LH forward side of luggage compartment		01-1
X6000	(88 PINS, NATURAL)	rear RH side of engine compartment		05-1
X6002	(20 PINS, BLACK)	rear LH side of engine compartment	09-2	00-1
X6031	(12 PINS, BLACK)	rear LH side of engine compartment	05-3	01-6
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6120	(2 PINS, BLACK)	LH side of engine compartment	13-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6130	(3 PINS, BLACK)	rear LH side of engine compartment	10-2	03-2
X6131	(2 PINS, BLACK)	rear LH side of engine compartment	11-2	
X6133	(2 PINS, YELLOW)	LH side of engine compartment	13-2	
X6150	(7 PINS, BLACK)	RH side of engine compartment	10-3	08-4
X6151	(3 PINS, GRAY)	top RH side of engine		08-5
X6152	(3 PINS, GRAY)	top RH side of engine		08-5
X6153	(3 PINS, GRAY)	top RH side of engine		08-5
X6154	(3 PINS, GRAY)	top RH side of engine		08-5
X6163	(2 PINS, BLACK)	LH side of engine compartment	13-2	
X6203	(3 PINS, BLACK)	front of engine below intake manifold		03-2
X6205	(2 PINS, BLACK)	LH side of engine near oil level stick	09-3	
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		03-2
X6217	(4 PINS, GRAY)	top front of engine	09-3	06-1
X6231	(2 PINS, BLACK)	LH front of engine below intake manifold	10-1	
X6232	(4 PINS, BLACK)	LH front of engine below intake manifold	26-2	06-1
X6240	(4 PINS, BLACK)	top front of engine		06-1
X6252	(3 PINS, BLACK)	LH side of engine compartment	10-2	03-2
X6255	(3 PINS, BLACK)	LH side of engine compartment	27-2	03-2
X6263	(2 PINS, BLACK)	under LH center of car	28-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment in Power Distribution Box		03-4
X6301	(9 PINS, BLACK)	rear LH side of engine compartment in Power Distribution Box		03-4

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6304	(9 PINS, BLACK)	rear LH side of engine compartment in Power Distribution Box		03-4
X6326	(9 PINS, WHITE)	rear RH side of engine compartment	27-1	03-4
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	05-2	
X6456	GROUND	rear RH side of engine compartment back of RH side shock tower	05-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	03-1	
X6510	CABLE SOCKET STARTER, TERMINAL 50	rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER, TERMINAL 30	rear LH side of engine compartment below intake manifold		
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment		
X8500	(88 PINS, NATURAL)	rear RH side of engine compartment in E–Box		05-1
X8503	(10 PINS, NATURAL)	center console RH side of gearshift selector	19-2	02-3
X8505	(16 PINS, BLACK)	on RH side of transmission		09-5
X8507	(1 PIN, BLACK)	below LH side of dash		
X8511	(2 PINS, BLACK)	under front of car LH side of transmission	25-3	
X8516	(2 PINS, BLACK)	on RH side of transmission	25-2	
X9997	(2 PINS, ORANGE)	behind steering wheel	16-1	
X10010	GROUND	RH side of glove box	04-2	
X10012	GROUND	RH side of glove box	04-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10013	(1 PIN, ——)	top of steering column		
X10070	(2 PINS, GRAY)	front LH side of engine compartment	13-3	
X10071	(2 PINS, BLACK)	front LH side of engine compartment	13-3	
X10074	(2 PINS, BLACK)	near RH headlight assembly		
X10075	(2 PINS, GRAY)	near RH headlight assembly		
X10094	(2 PINS, BLACK)	LH side of engine compartment	27-3	
X10182	(18 PINS, BLACK)	behind glove box		01-5
X10216	(2 PINS, YELLOW)	driver’s seat right		
X10217	(2 PINS, YELLOW)	passenger’s seat left		
X10218	(3 PINS, NATURAL)	under RH front seat	20-3	01-1
X10234	(4 PINS, ——)	center of dash center console		03-1
X10244	(1 PIN, BLACK)	below RH side of dash behind glove box		
X10245	(12 PINS, BLACK)	behind center of dashboard		01-3
X10246	(2 PINS, BLACK)	in RH side of luggage compartment		
X10247	(2 PINS, WHITE)	in RH side of luggage compartment		
X10248	(2 PINS, BLACK)	in LH side of luggage compartment	23-2	
X10249	(2 PINS, WHITE)	in LH side of luggage compartment		
X10250	(2 PINS, BLACK)	below LH side of dash	20-1	
X10261	(4 PINS, BLACK)	front RH side of engine compartment	08-3	08-1
X10262	(9 PINS, BLACK)	below LH side of dash		03-4
X10263	(6 PINS, BLACK)	behind center of dashboard		04-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10271	(3 PINS, BLACK)	in roof panel		01-1
X11250	(6 PINS, BLACK)	behind center console	02-2	01-2
X11289	(3 PINS, BLACK)	under LH front seat		01-1
X11290	(3 PINS, BLACK)	under RH front seat		01-1
X11379	(3 PINS, NATURAL)	front RH side of engine compartment near RH headlight assembly	08-3	05-3
X11393	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X11395	(5 PINS, BLACK)	behind glove box		02-5
X13006	GROUND	in LH side of luggage compartment	05-1	
X13009	GROUND	behind glove box right		
X13016	GROUND	below LH side of dash	04-3	
X13025	(12 PINS, BLACK)	RH side of dash behind glove box		02-4
X13057	(2 PINS, BLACK)	in lift gate	02-1	
X13170	(2 PINS, BLACK)	behind side panel, right from RH rear seat	28-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well, behind trim panel	29-1	09-4
X13176	(6 PINS, NATURAL)	in roof panel		04-3
X13252	(15 PINS, BLACK)	behind glove box	01-1	00-3
X13253	(26 PINS, YELLOW)	behind glove box	01-1	00-2
X13254	(26 PINS, GREEN)	behind glove box	01-1	00-2
X13268	(3 PINS, BLACK)	in lift gate	02-1	01-1
X13274	(10 PINS, BLACK)	center of dash center console		02-3
X13286	(1 PIN, BLACK)	center of dash behind center console		

COMPONENT LOCATION CHART

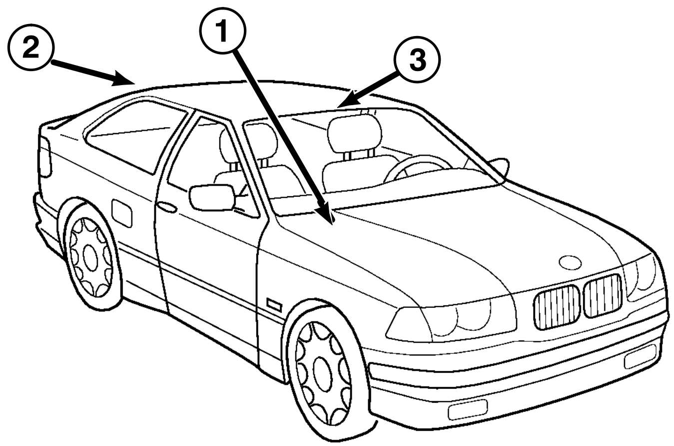
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13287	(1 PIN, WHITE)	center of dash behind center console		
X13305	(8 PINS, BLACK)	center console		01-4
X17159	(12 PINS, ——)	at back of rear window shelf		08-3
X17179	(12 PINS, ——)	in LH side of luggage compartment behind trim panel		08-3
X18126	(17 PINS, BLACK)	center console behind radio		02-2
X18196	(10 PINS, BLACK	behind LH footwell speaker grille		02-3
X18198	(10 PINS, BLACK	behind RH footwell speaker grille		02-3
X18279	(2 PINS, GRAY)	LH front door behind door panel	22-1	
X18280	(2 PINS, GRAY)	RH front door behind door panel	21-2	
X18333	(2 PINS, BLACK)	on instrument cluster	17-2	
X18334	(2 PINS, BLACK)	on instrument cluster	17-2	
X18337	(12 PINS, BLACK)	on instrument cluster	17-2	09-3
X18338	(12 PINS, BLACK)	on instrument cluster	17-2	09-3
X18518	(4 PINS, BLACK)	under RH front seat		07-1
X18520	(10 PINS, ——)	center console RADIO		02-3
X18521	(10 PINS, ——)	RH side of luggage compartment CD CHANGER		02-3
X18723	GROUND	below LH side of dash	04-3	
X18994	(3 PINS, YELLOW)	LH footwell underside of steering column	23-3	01-1
X19527	(16 PINS, BLACK)	center console right	24-3	05-4
X62001	(4 PINS, BLACK)	under center of car	25-1	06-1
X62002	(4 PINS, BLACK)	under center of car	26-3	06-1

COMPONENT LOCATION CHART

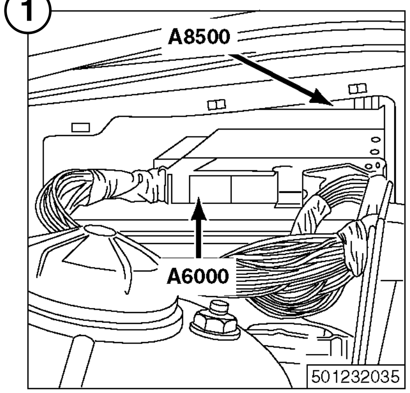
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X91009	(2 PINS, BLACK)	under passenger's seat		
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	11-3	
Y2	AIR CONDITIONING COMPRESSOR	front RH side of engine compartment		
Y4z	WATER VALVE	rear LH side of engine compartment	11-3	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console	19-3	
Y199	CARBON CANISTER VALVE	behind side panel, right from RH rear seat	28-3	
Y6101	CYL. 1 FUEL INJECTION VALVE	on cylinder head	08-2	
Y6102	CYL. 2 FUEL INJECTION VALVE	on cylinder head	08-2	
Y6103	CYL. 3 FUEL INJECTION VALVE	on cylinder head	08-2	
Y6104	CYL. 4 FUEL INJECTION VALVE	on cylinder head	08-2	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment	13-2	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment	10-2	
Y6131	INTAKE AIR RESONANCE CHANGE-OVER VALVE	rear LH side of engine compartment	11-2	
Y6133	AIR PUMP	LH side of engine compartment	13-2	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment	13-2	
Y6263	FUEL CHANGEOVER VALVE	under LH center of car	28-2	
Y8505y	TRANSMISSION VALVE UNIT	on RH side of transmission		

7100.0 COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



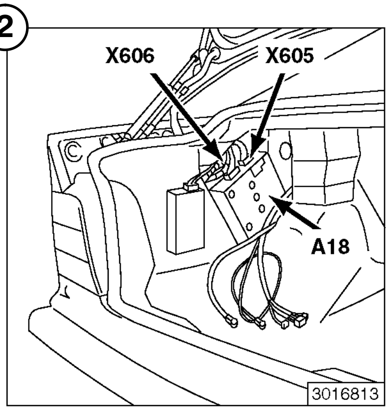
1



A6000
ENGINE CONTROL
MODULE (DME)

A8500
TRANSMISSION
CONTROL MODULE
(EGS)

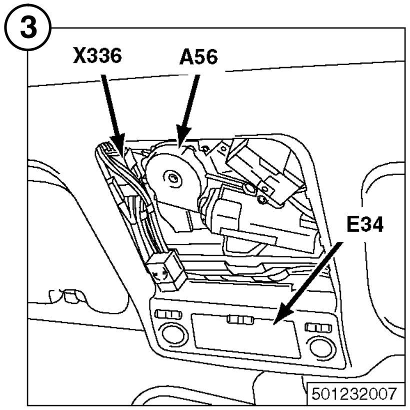
2



A18
HIFI AMPLIFIER

X605
X606

3

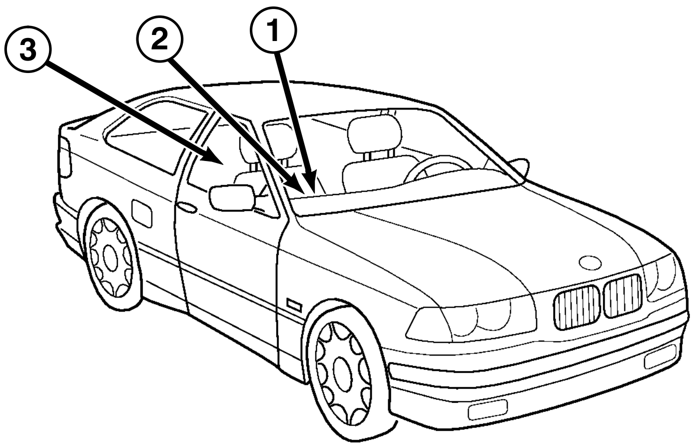


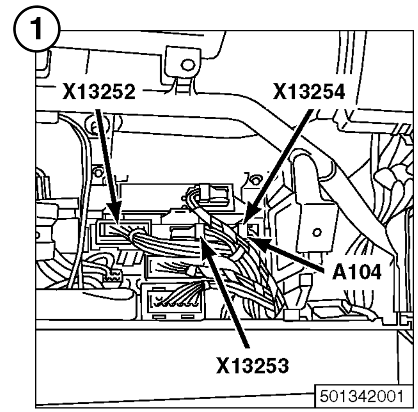
A56
TILT/SLIDE SUN-
ROOF CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/MAP READ-
ING ASSEMBLY

X336

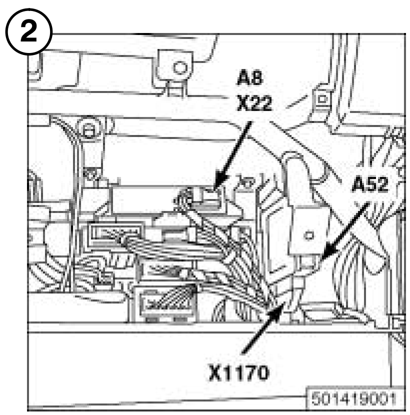
ELECTRICAL CONTROL MODULE LOCATIONS





A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)

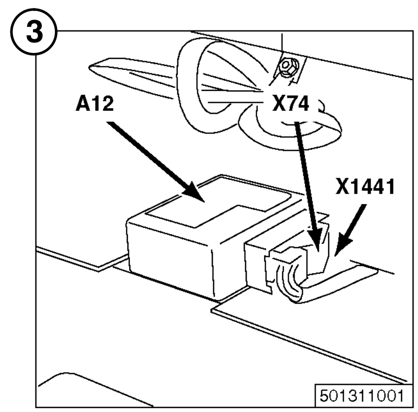
X13252
X13253
X13254



A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

A52
SLIP CONTROL
MODULE
(ABS/ASC)

X22
X1170

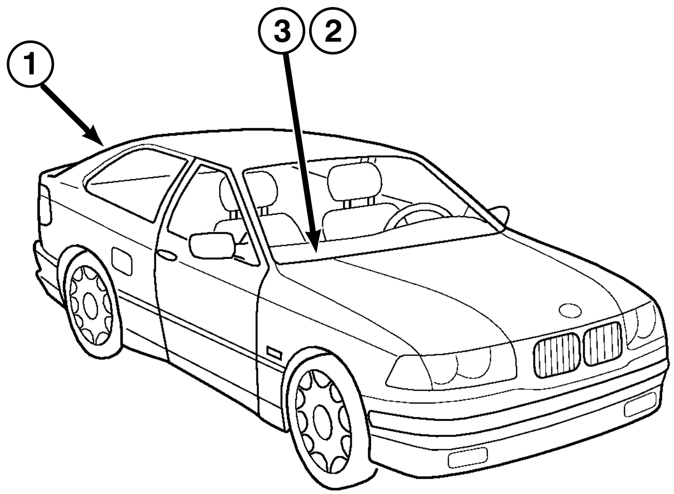


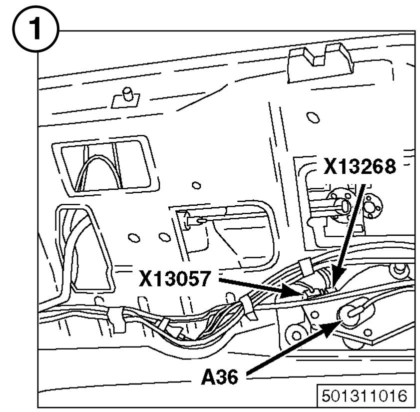
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE

X1441
X74

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

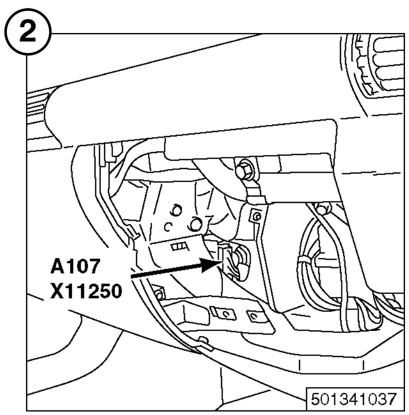




A36
REAR WIPER/
WASHER INTERVAL
CONTROL MODULE

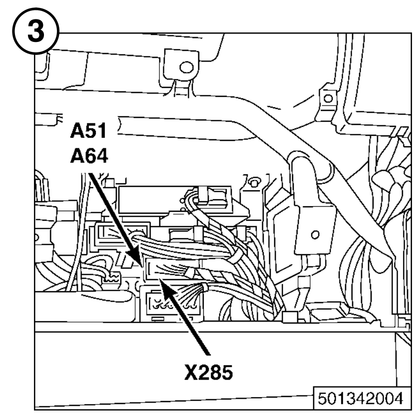
X13057

X13268



A107
INTEGRATED
HEATING– AND
CLIMATE CONTROL
MODULE

X11250



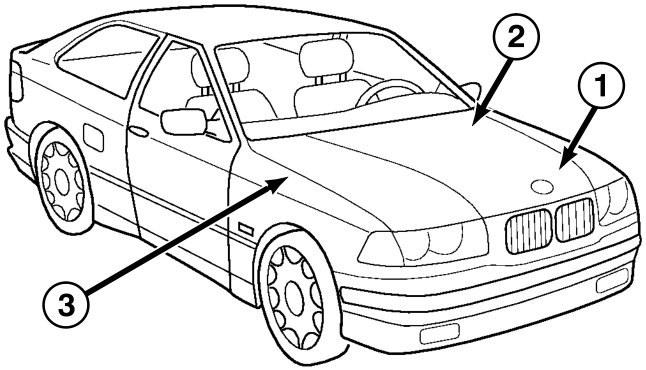
A51
WIPER/WASHER
MODULE

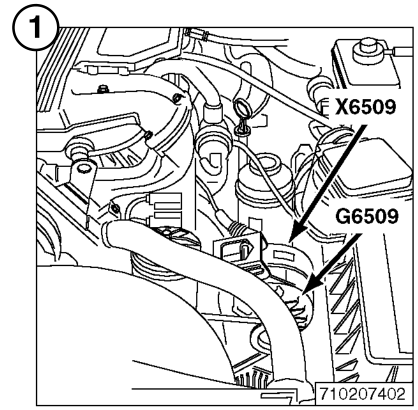
A64
WIPER/WASHER
MODULE (LOW II)

X285

COMPONENT LOCATION VIEWS

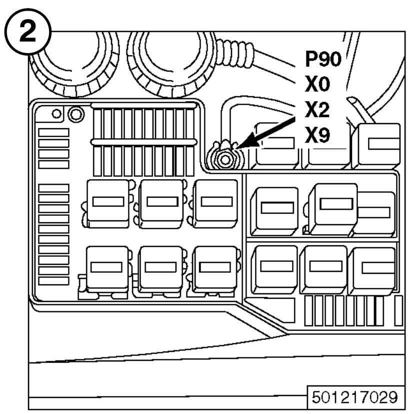
B(+)





G6509
GENERATOR

X6509

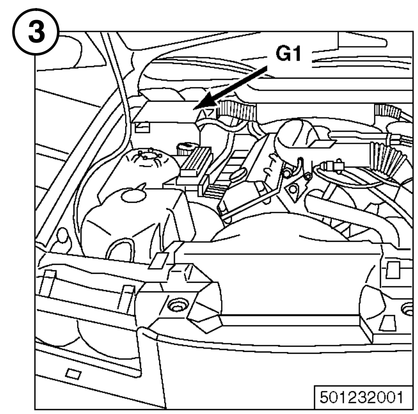


P90
FRONT POWER
DISTRIBUTION BOX

X0
B+ JUNCTION
POINT

X2
BATTERY B+
START POINT

X9
B+ JUNCTION
POINT

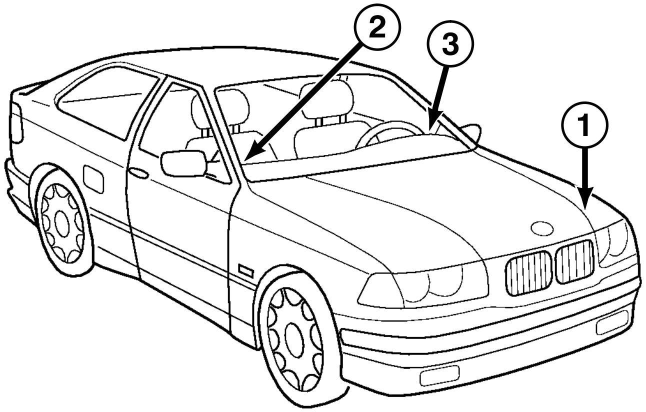


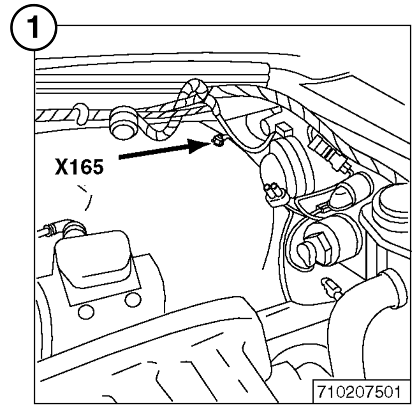
G1
BATTERY

BMW 3 compact

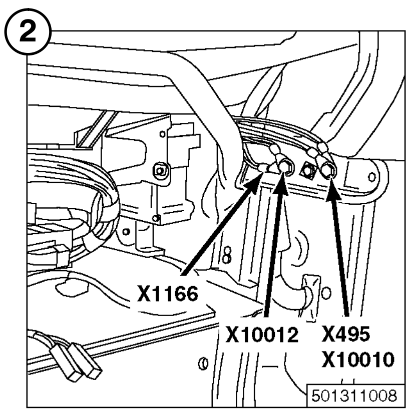
COMPONENT LOCATION VIEWS

B(–)





X165
GROUND

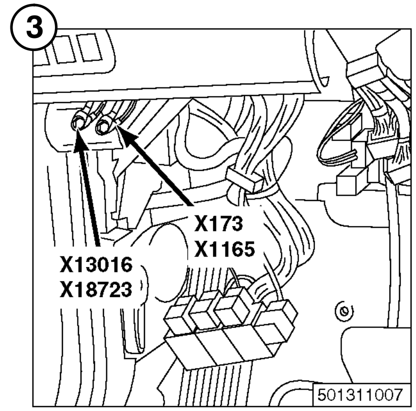


X495
GROUND

X1166
GROUND

X10010
GROUND

X10012
GROUND



X173
GROUND

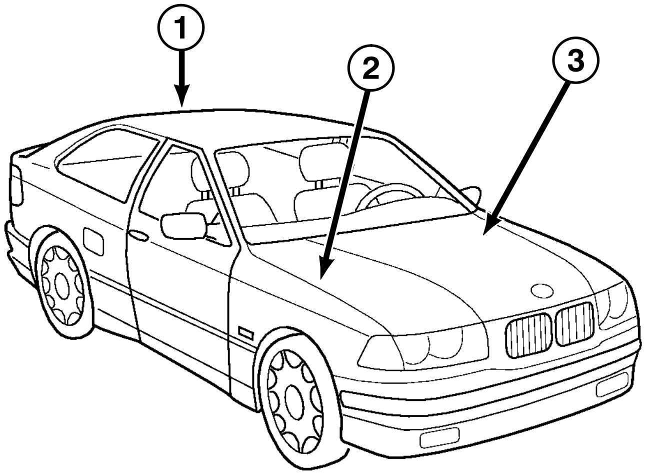
X1165
GROUND

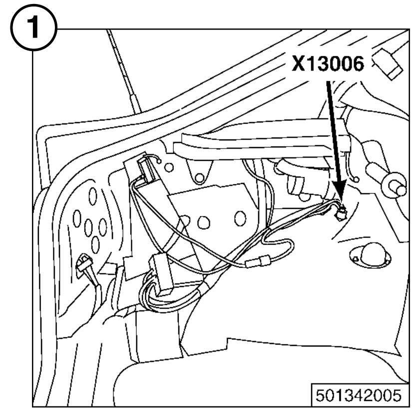
X13016
GROUND

X18723
GROUND

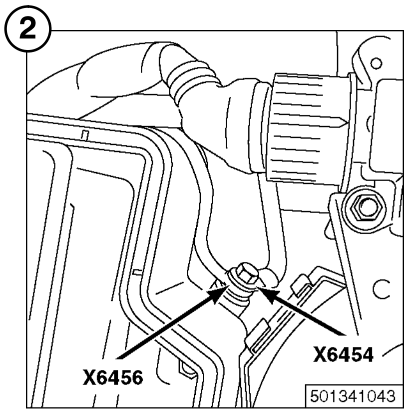
COMPONENT LOCATION VIEWS

B(–)

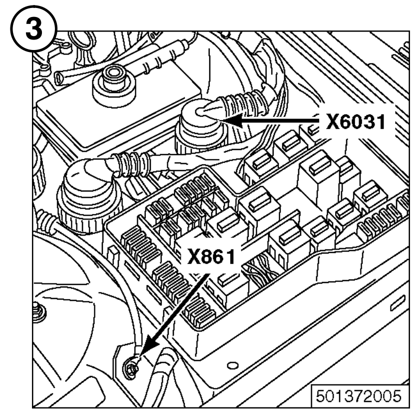




X13006
GROUND



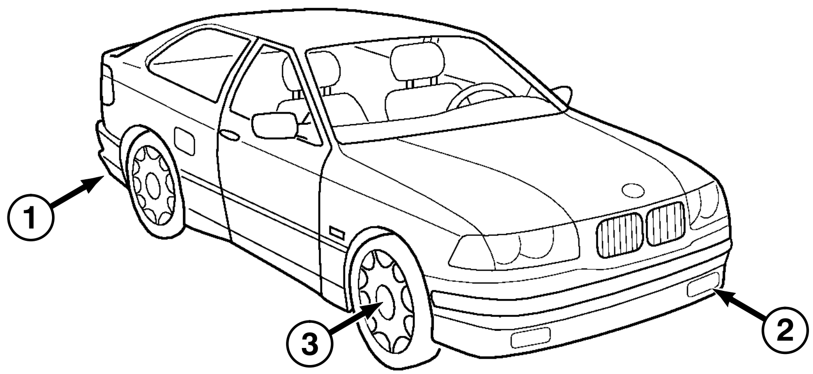
X6454
X6456

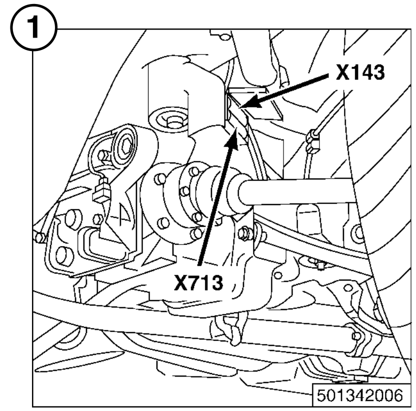


X861
GROUND

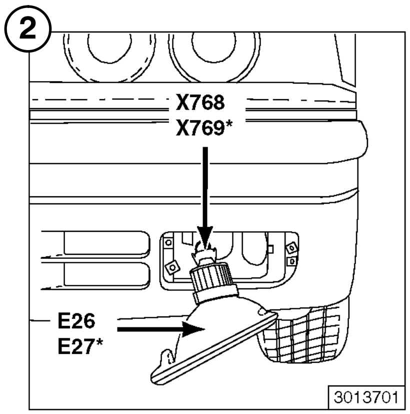
X6031

COMPONENT LOCATION VIEWS





X143
X713

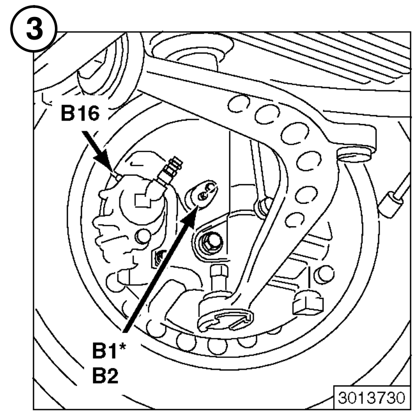


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

* RH SIMILAR



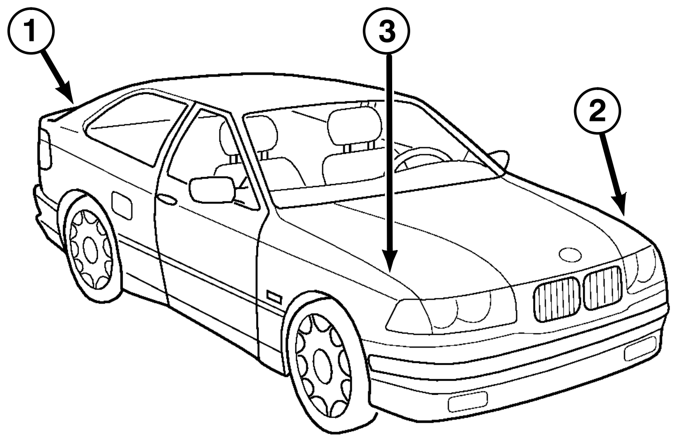
B1 *
RIGHT FRONT
SPEED SENSOR –
ABS

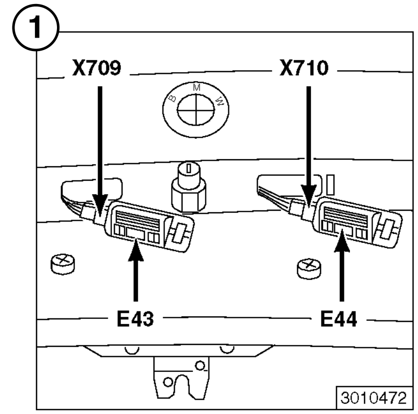
B2
LEFT FRONT
SPEED SENSOR –
ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

* RH SIMILAR

COMPONENT LOCATION VIEWS

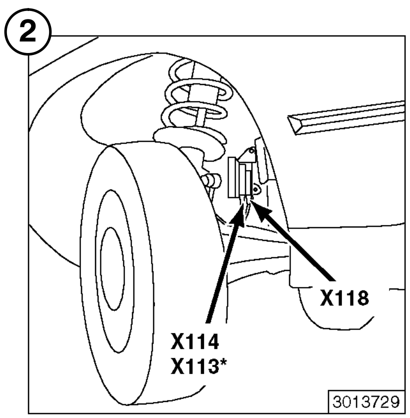




E43
LEFT LICENSE
PLATE LIGHT

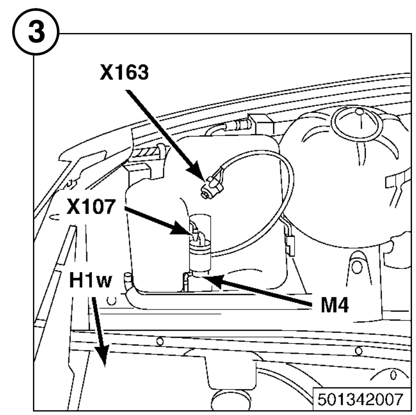
E44
RIGHT LICENSE
PLATE LIGHT

X709
X710



X113 *
X114
X118

* RH SIMILAR



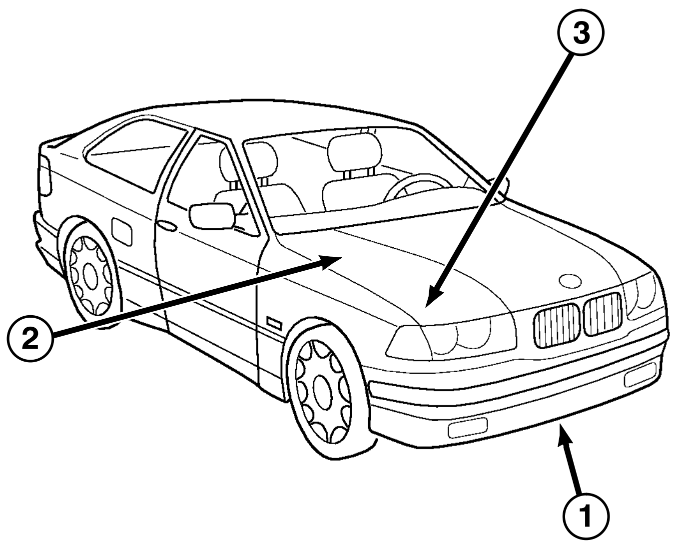
H1w
ANTI–THEFT HORN
(ALPINE)

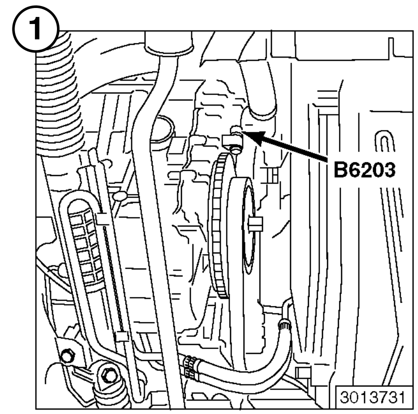
M4
WASHER PUMP

X107
X163

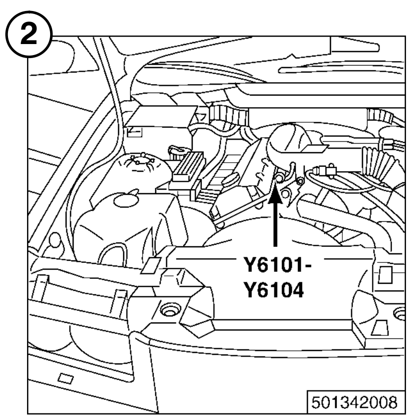
COMPONENT LOCATION VIEWS

BMW 3 compact

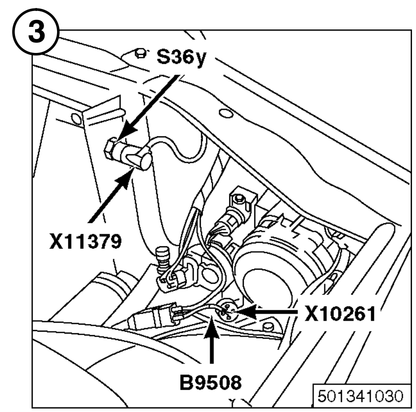




B6203
CRANKSHAFT
POSITION/RPM
SENSOR



Y6101
Y6102
Y6103
Y6104

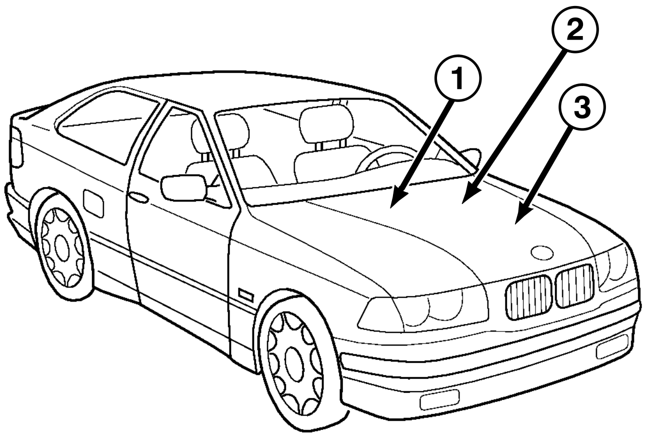


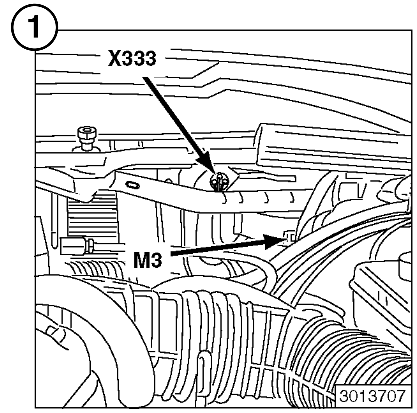
B9508
PRESSURE
SWITCH

S36y
DOUBLE
TEMPERATURE
SWITCH

X10261
X11379

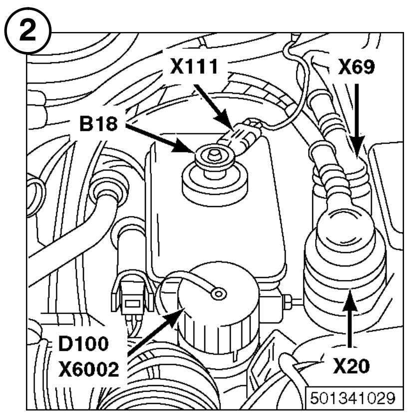
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

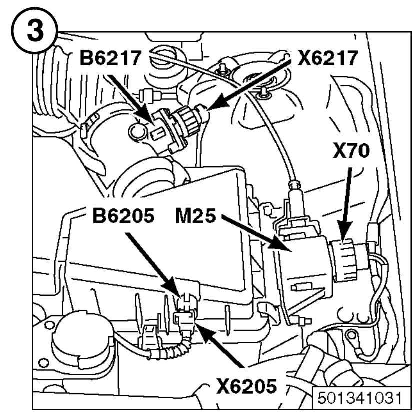
X333



B18
BRAKE FLUID
LEVEL SWITCH

D100
DATA LINK
CONNECTOR

X20
X69
X111
X6002



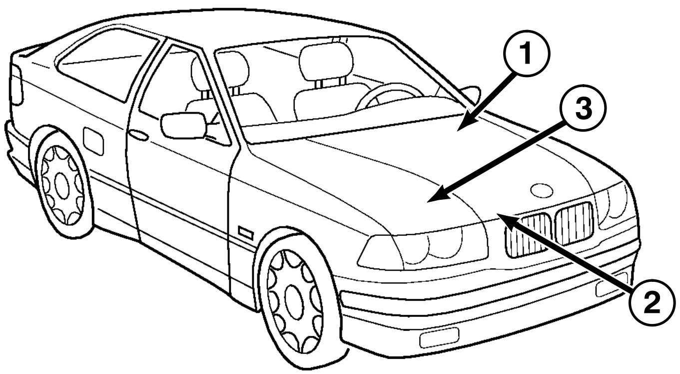
B6205
INTAKE AIR
TEMPERATURE
SENSOR

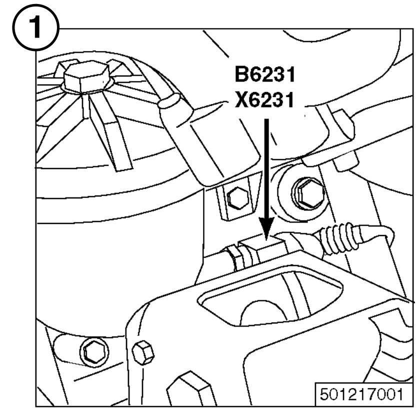
B6217
HOT FILM AIR
MASS METER

M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70
X6205
X6217

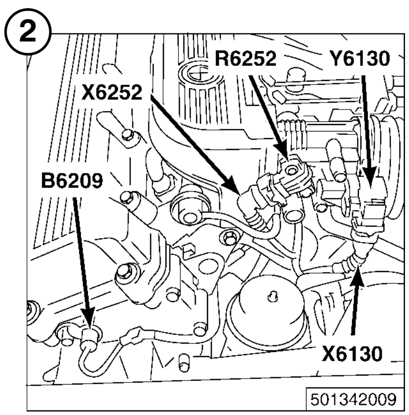
COMPONENT LOCATION VIEWS





B6231
OIL PRESSURE
SWITCH

X6231



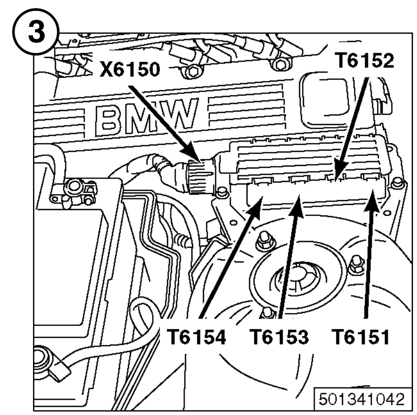
B6209
HALL EFFECT CAM-
SHAFT SENSOR

X6130

X6252

R6252
THROTTLE
POSITION SENSOR

Y6130
IDLE SPEED
CONTROL VALVE



T6151
CYL. 1 IGNITION
COIL

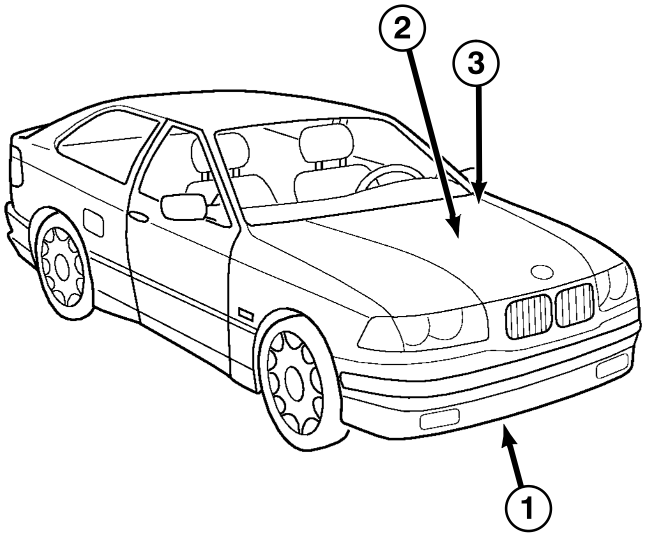
T6154
CYL. 4 IGNITION
COIL

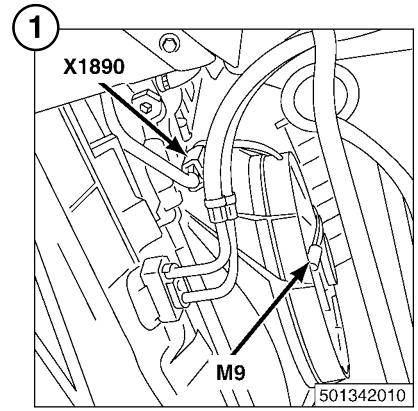
T6152
CYL. 2 IGNITION
COIL

X6150

T6153
CYL. 3 IGNITION
COIL

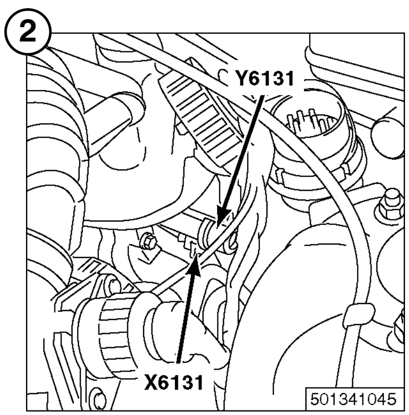
COMPONENT LOCATION VIEWS





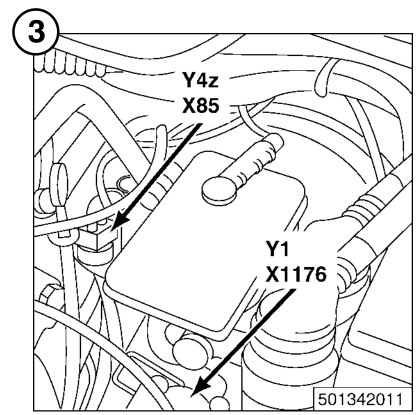
M9
AUXILIARY FAN
MOTOR

X1890



Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE

X6131

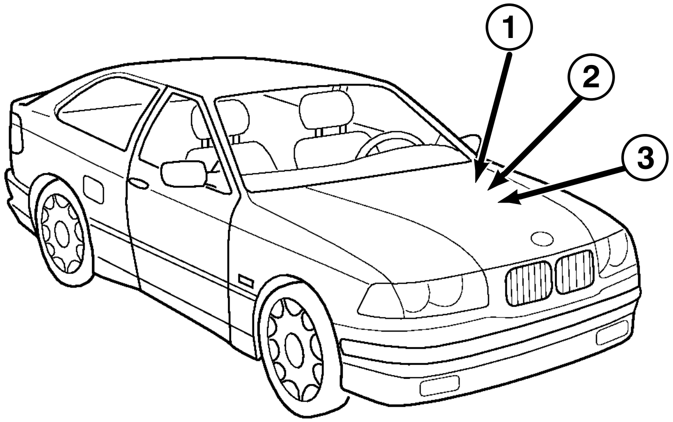


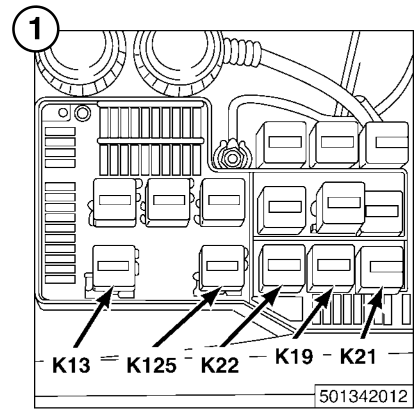
Y1
ABS HYDRAULIC
UNIT

Y4z
WATER VALVE

X85
X1176

COMPONENT LOCATION VIEWS





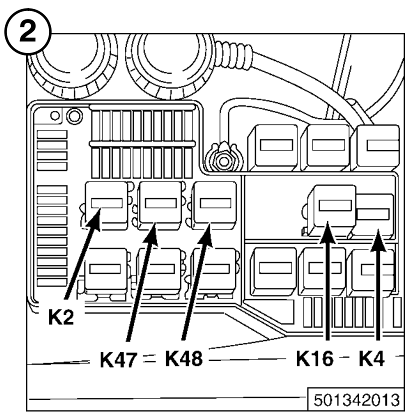
K13
REAR DEFOGGER
RELAY

K22
HIGH SPEED
RELAY

K19
COMPRESSOR
CONTROL RELAY

K125
ABS PUMP MOTOR
RELAY, TIMED

K21
NORMAL SPEED
RELAY



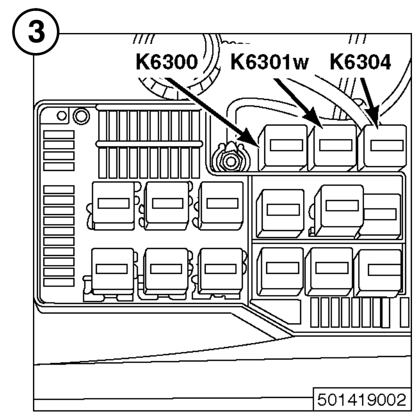
K2
HORN RELAY

K47
FRONT FOG LIGHT
RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT
RELAY

K16
HAZARD FLASHER
RELAY

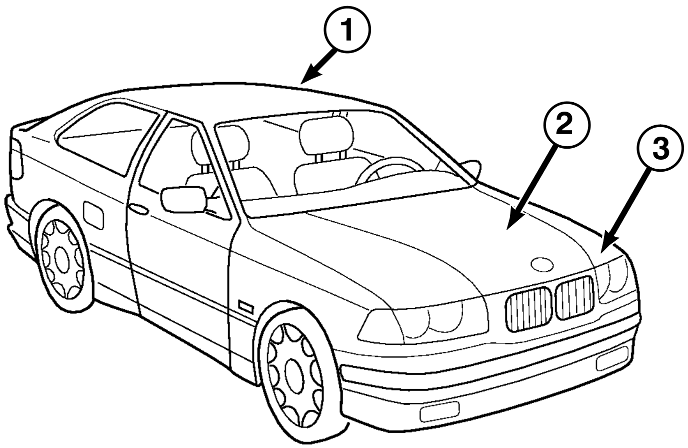


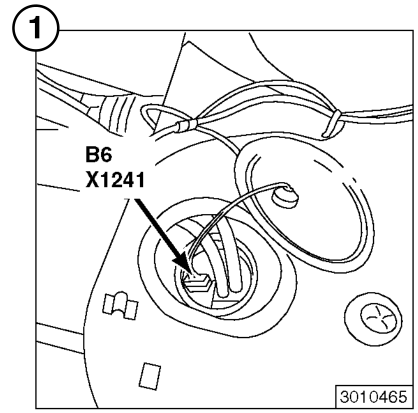
K6300
ENGINE CONTROL
MODULE RELAY

K6301w
FUEL PUMP RELAY

K6304
SECONDARY AIR
PUMP RELAY

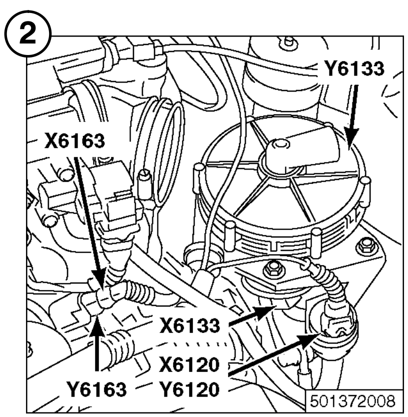
COMPONENT LOCATION VIEWS





B6
FUEL LEVEL
SENSOR

X1241

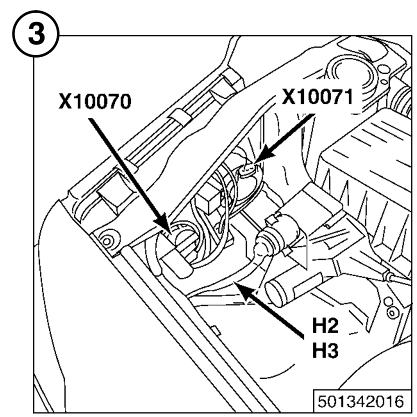


Y6120
EVAPORATIVE
EMISSION VALVE

X6120
X6133
X6163

Y6133
AIR PUMP

Y6163
SECONDARY AIR
PUMP VALVE



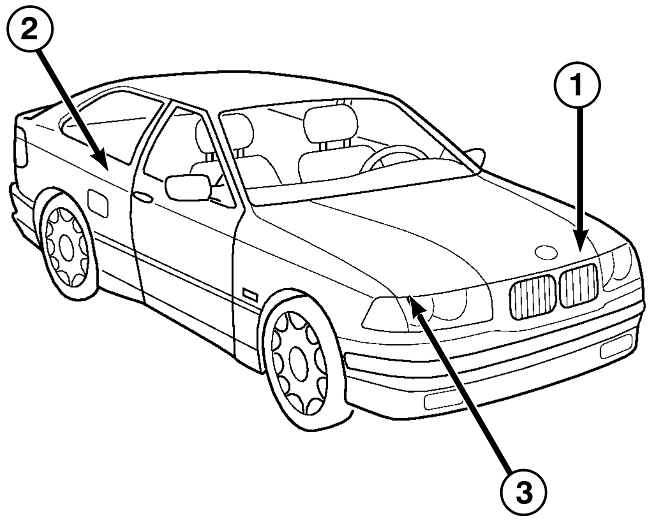
H2
LEFT HORN

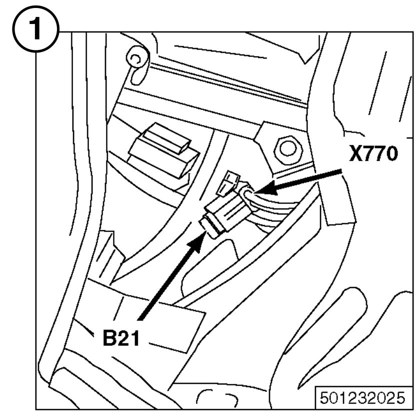
H3 *
RIGHT HORN

X10070
X10071

* RH SIMILAR

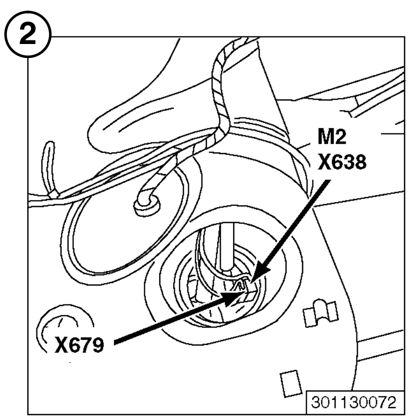
COMPONENT LOCATION VIEWS





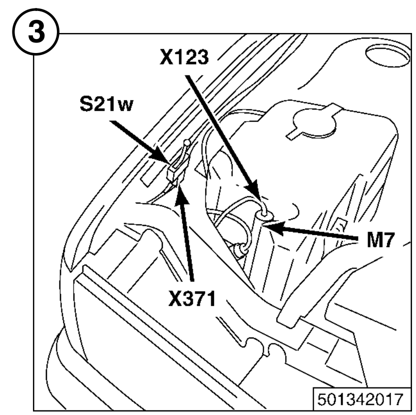
B21
ON–BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



M2
FUEL PUMP

X638
X679

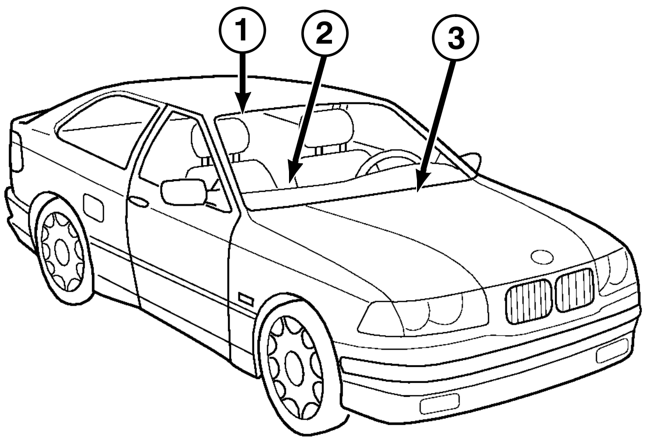


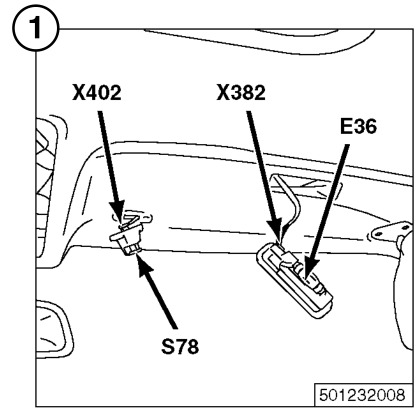
M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

S21w
ENGINE HOOD
SWITCH

X123
X371

COMPONENT LOCATION VIEWS

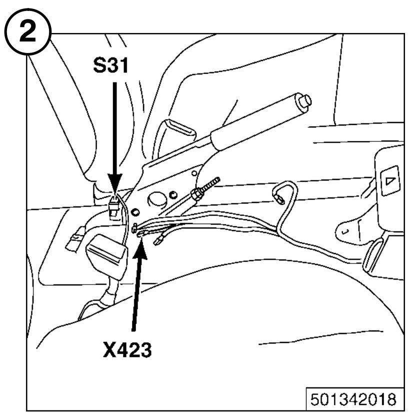




E36
PASSENGER'S
MAKE–UP MIRROR
LIGHT

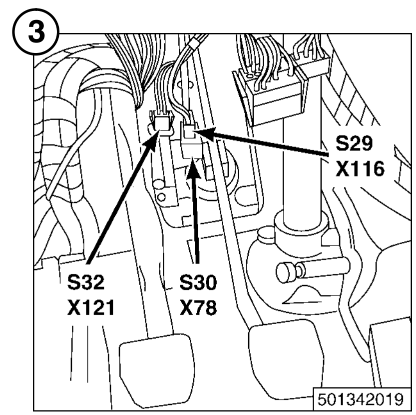
S78
PASSENGER'S
MAKE–UP MIRROR
SWITCH

X382
X402



S31
PARK BRAKE
SWITCH

X423



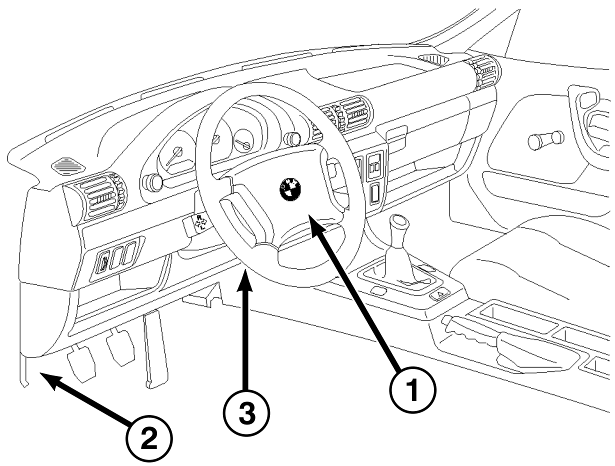
S29
BRAKE LIGHT
SWITCH

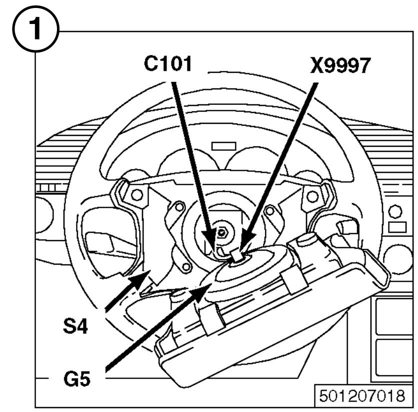
S30
BRAKE LIGHT
SWITCH

S32
CLUTCH SWITCH

X78
X116
X121

COMPONENT LOCATION VIEWS

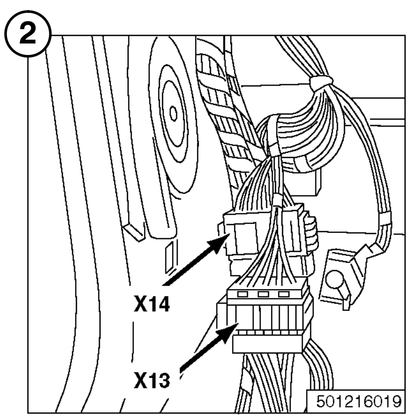




C101 X9997
CONTACT RING

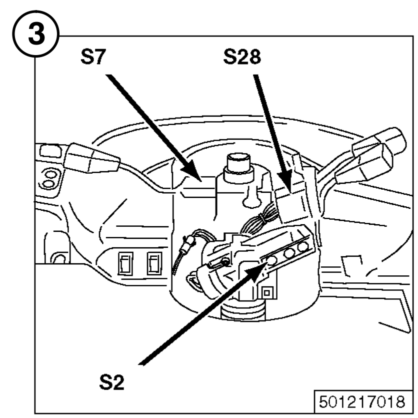
G5
DRIVER'S AIR BAG
GAS GENERATOR

S4
HORN SWITCH



X13

X14

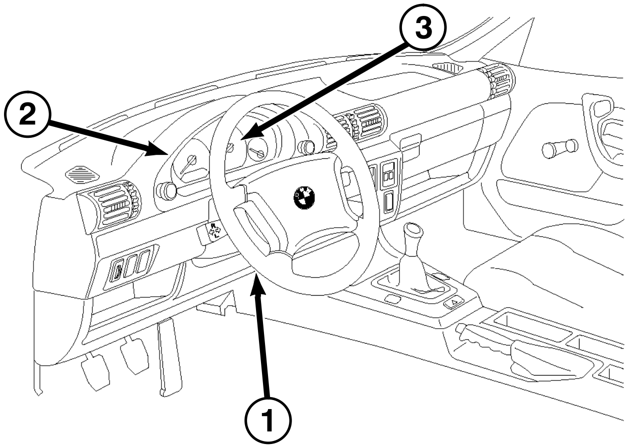


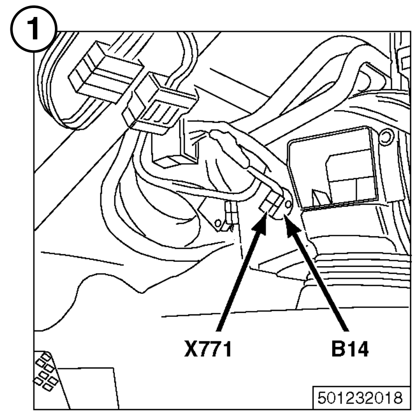
S2
IGNITION SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

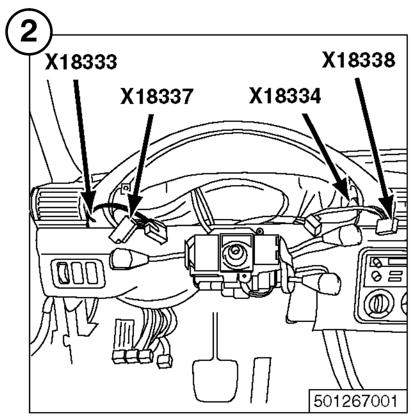
COMPONENT LOCATION VIEWS



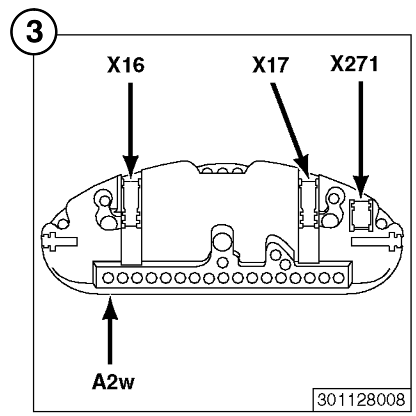


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771



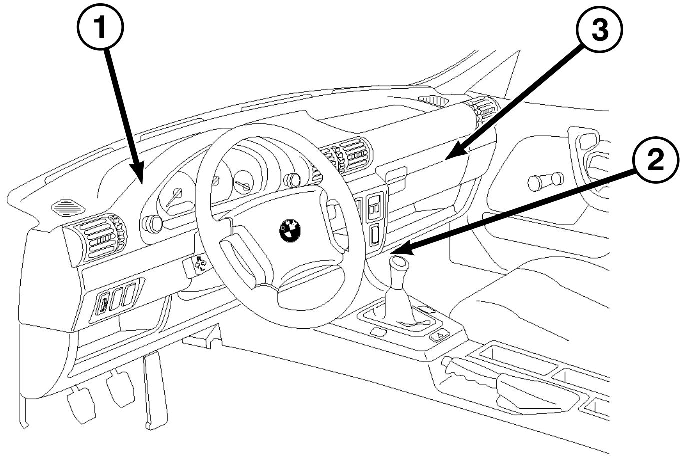
X18333
X18334
X18337
X18338

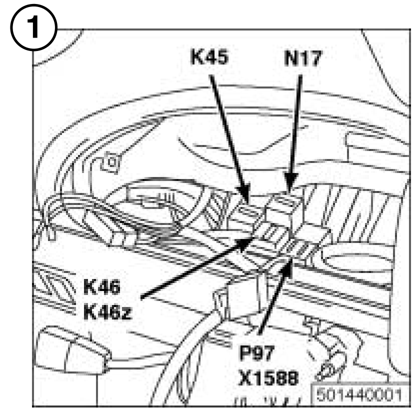


A2w
INSTRUMENT
CLUSTER

X16
X17
X271

COMPONENT LOCATION VIEWS





K45
FOLDING SUN-
ROOF COMFORT
RELAY

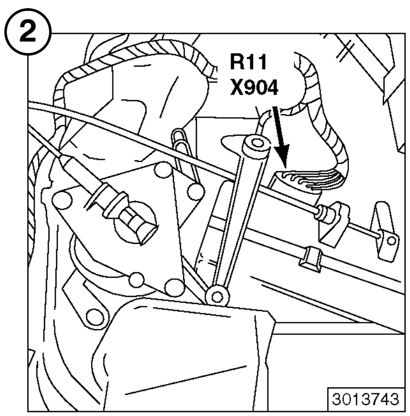
N17
CRASH CONTROL
MODULE

K46
HIGH BEAM LIGHT
RELAY

P97
AUXILIARY FUSE
BOX

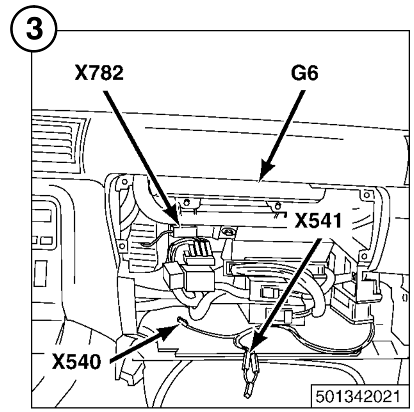
K46z
DAY LIGHT RELAY
MODULE

X1588



R11
BLOWER
RESISTORS

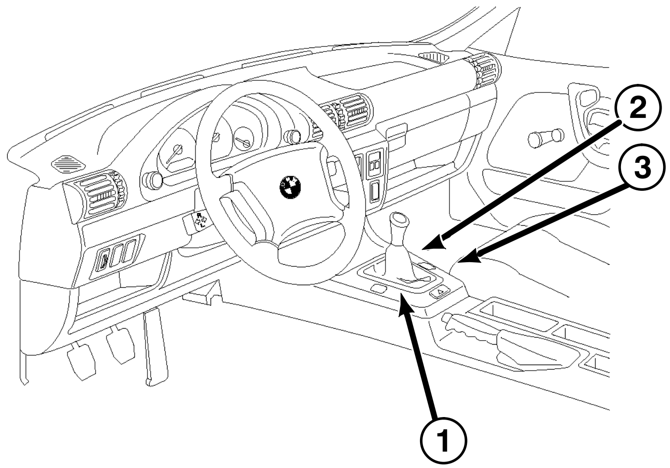
X904

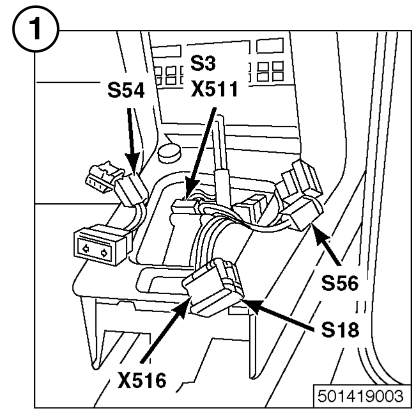


G6
PASSENGER'S AIR
BAG GAS
GENERATOR

X540
X541
X782

COMPONENT LOCATION VIEWS





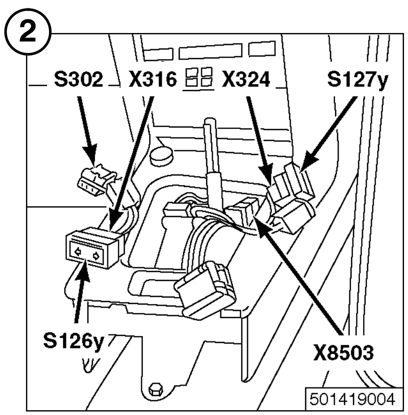
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

S56
PASSENGER'S
SEAT, SEAT
CONTROL SWITCH

S18
HAZARD SWITCH

X511
X516

S54
PASSENGER'S
SEAT, SEAT
HEATER SWITCH

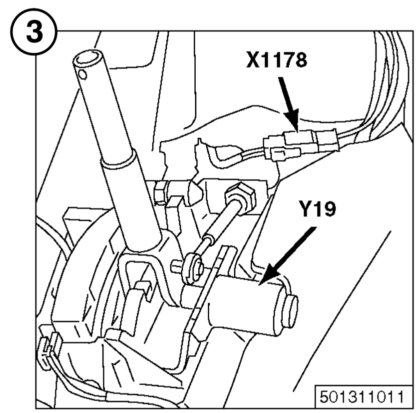


S126y
DRIVER'S POWER
WINDOW SWITCH

X316
X324
X8503

S127y
PASSENGER'S
POWER WINDOW
SWITCH

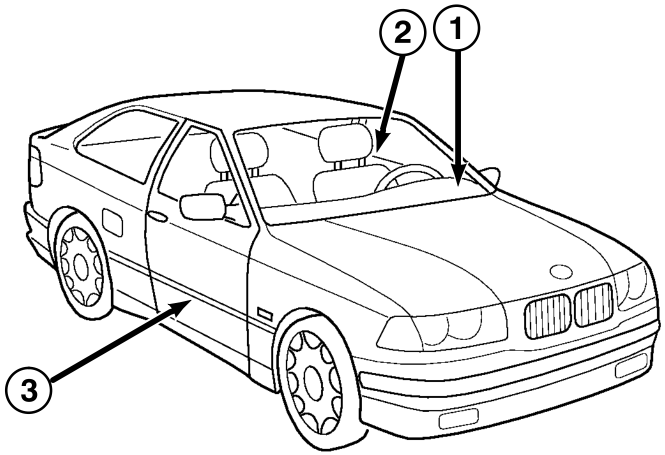
S302
CENTRAL LOCKING
SWITCH

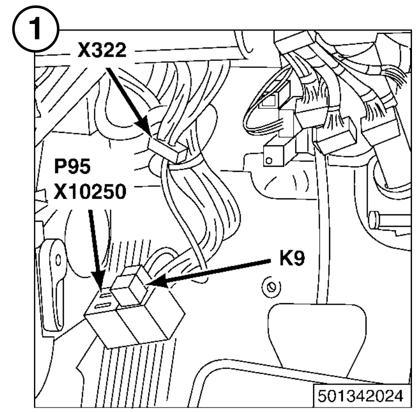


Y19
SHIFT–LOCK

X1178

COMPONENT LOCATION VIEWS

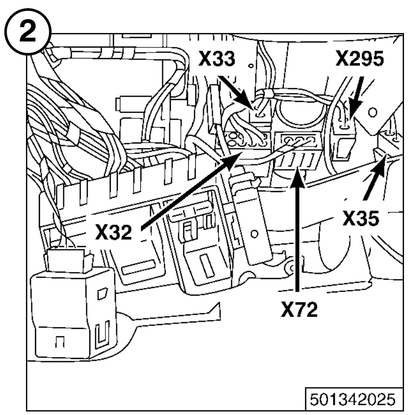




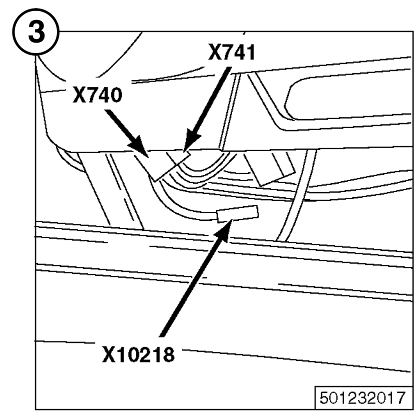
K9
UNLOADER RELAY,
TERMINAL 15

P95
AUXILIARY FUSE
BOX

X322
X10250

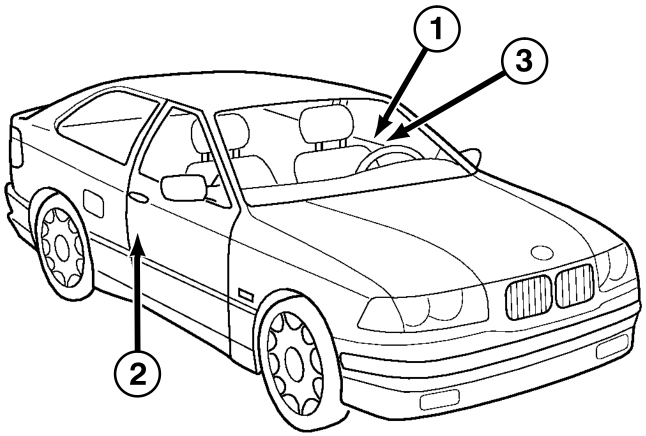


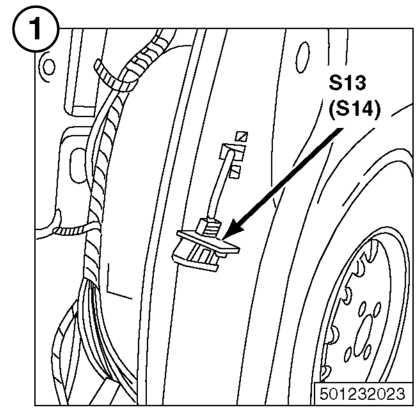
X32
X33
X35
X72
X295



X740
X741
X10218

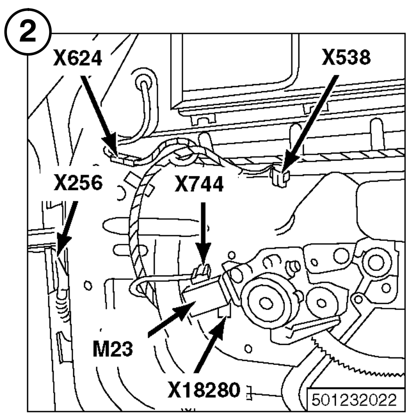
COMPONENT LOCATION VIEWS





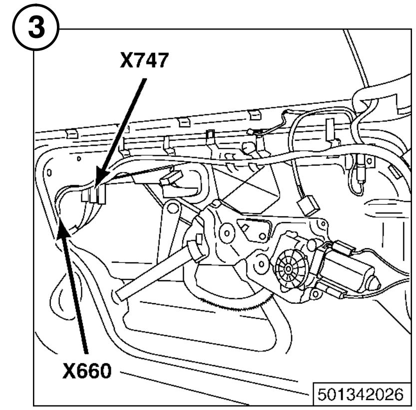
S13
PASSENGER'S
DOOR JAMB
SWITCH

S14
DRIVER'S DOOR
JAMB SWITCH



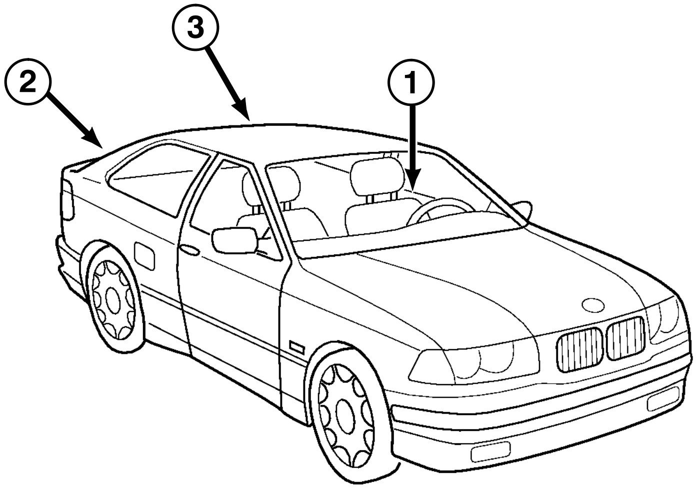
M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X18280

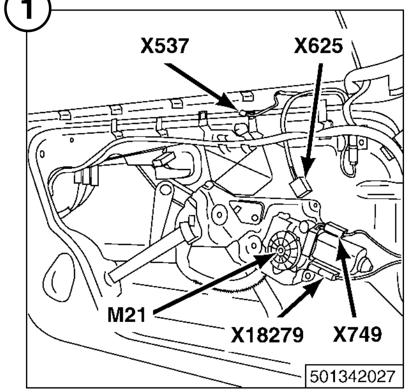


X660
X747

COMPONENT LOCATION VIEWS



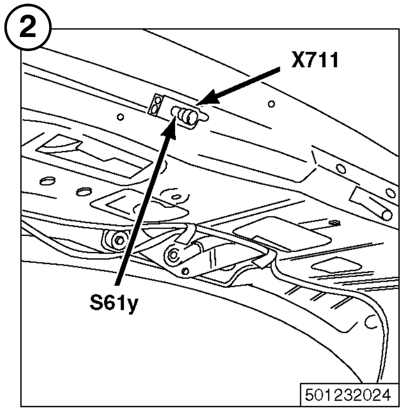
1



M21
DRIVER'S WINDOW
MOTOR

X537
X625
X749
X18279

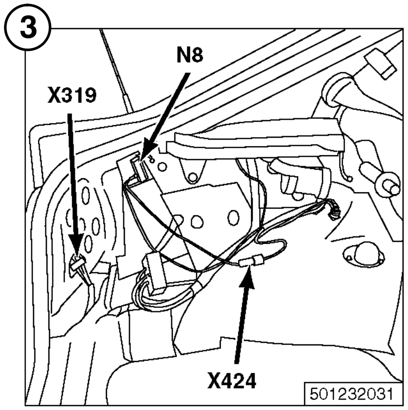
2



S61y
LUGGAGE
COMPARTMENT
LIGHT SWITCH

X711

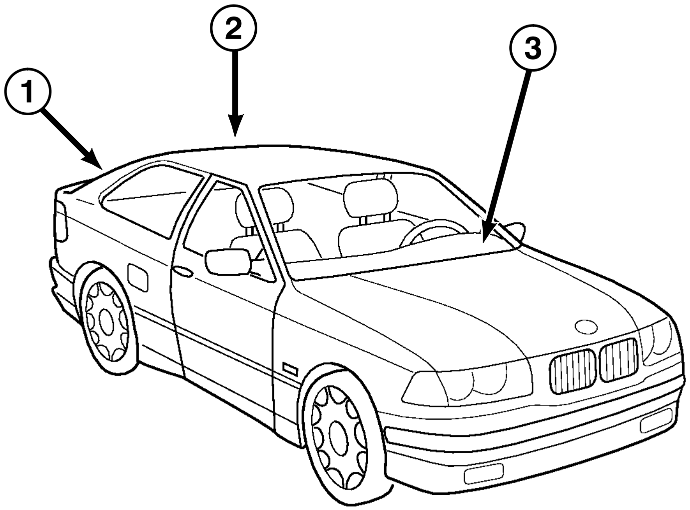
3



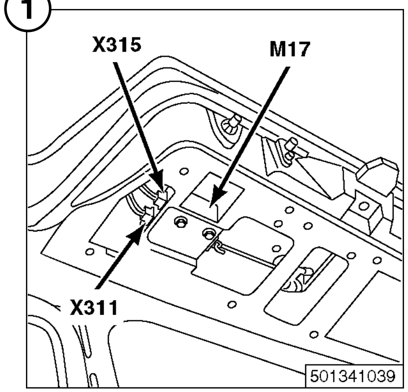
N8
ANTENNA
AMPLIFIER AM/FM

X319
X424

COMPONENT LOCATION VIEWS



1

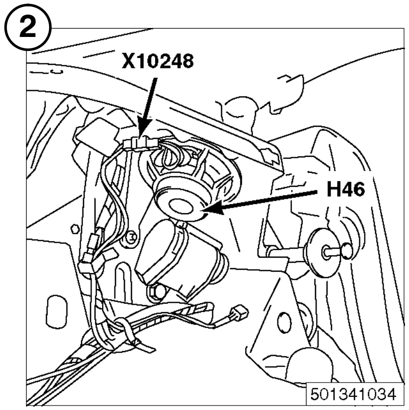


M17
LUGGAGE
COMPARTMENT
LOCK MOTOR

X311

X315

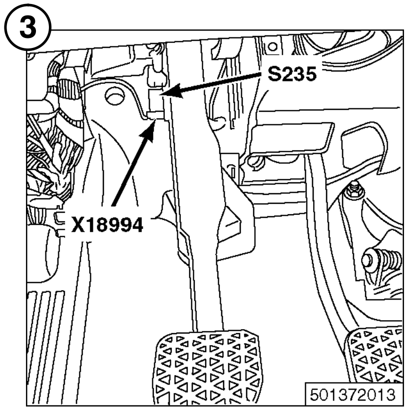
2



H46
LEFT REAR
SPEAKER

X10248

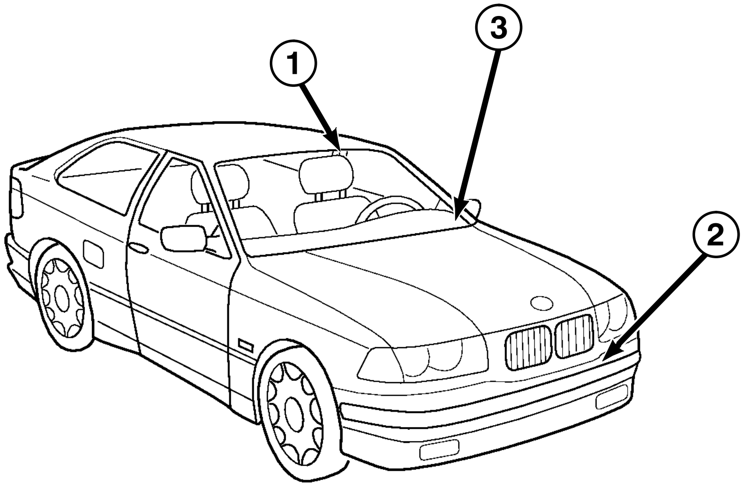
3

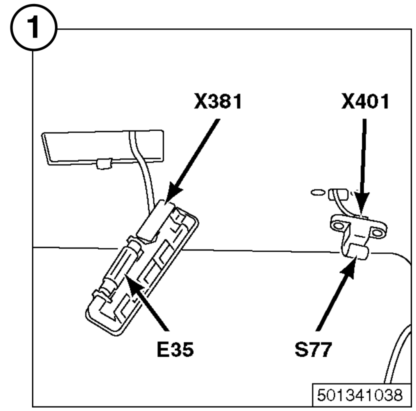


S235
STARTER
IMMOBILIZATION
SWITCH

X18994

COMPONENT LOCATION VIEWS

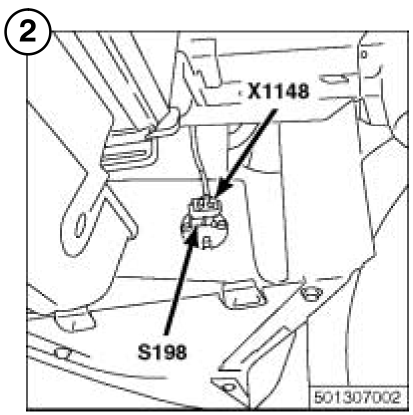




E35
DRIVER'S MAKE–
UP MIRROR LIGHT

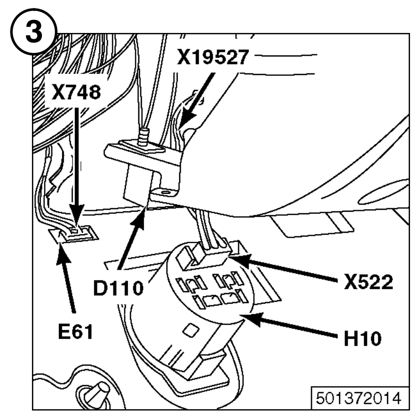
S77
DRIVER'S MAKE–
UP MIRROR
SWITCH

X381
X401



S198
JET HEATER
THERMOSWITCH

X1148



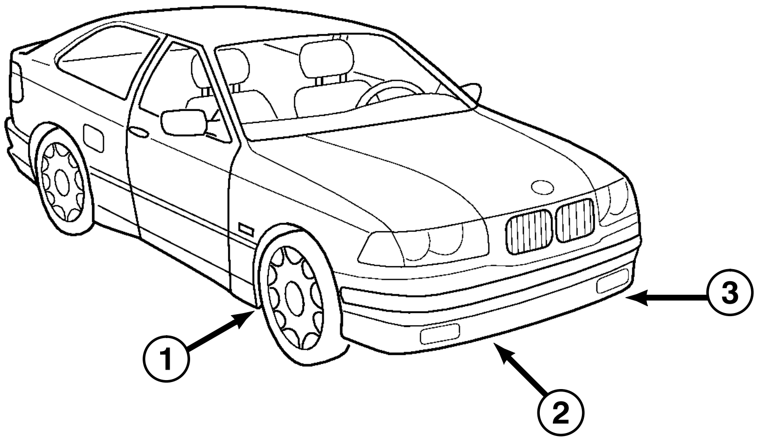
E61
LEFT FRONT
FOOTWELL LIGHT

X522
X748
X19527

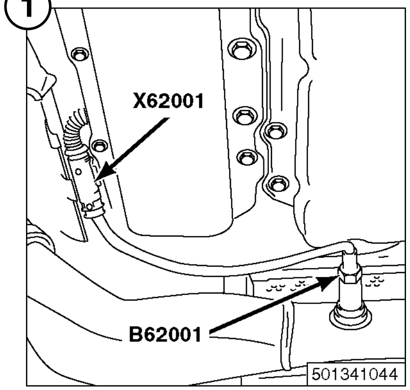
D110
OBD II
CONNECTOR

H10
CHIME MODULE

COMPONENT LOCATION VIEWS



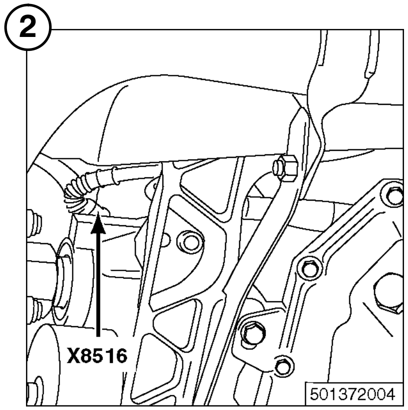
1



B62001
OXYGEN SENSOR
(IN FRONT OF
CATALYTIC
CONVERTER)

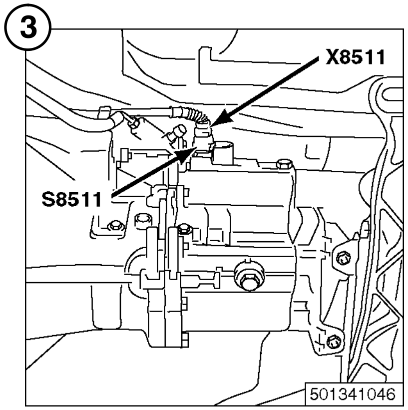
X62001

2



X8516

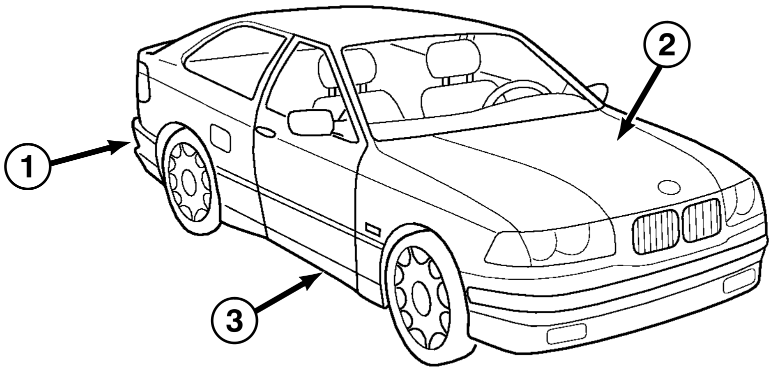
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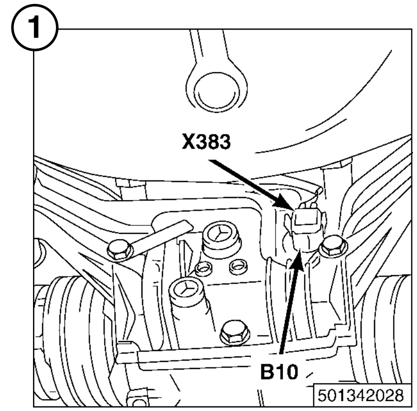


S8511
REVERSING LIGHT
SWITCH

X8511

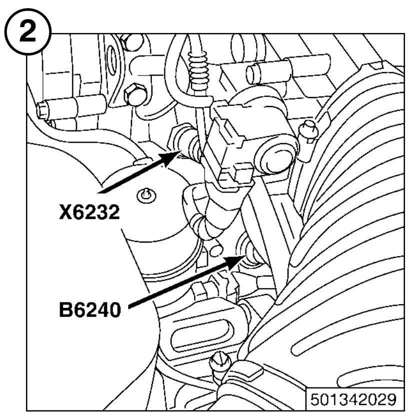
COMPONENT LOCATION VIEWS





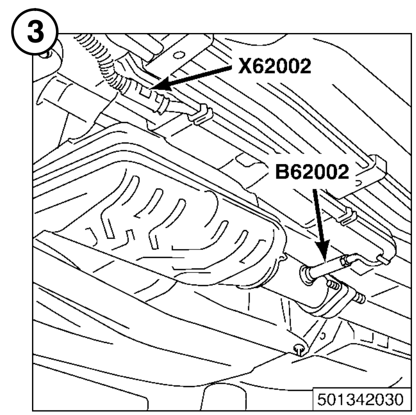
B10
VEHICLE SPEED
SENSOR

X383



B6240
KNOCK SENSOR

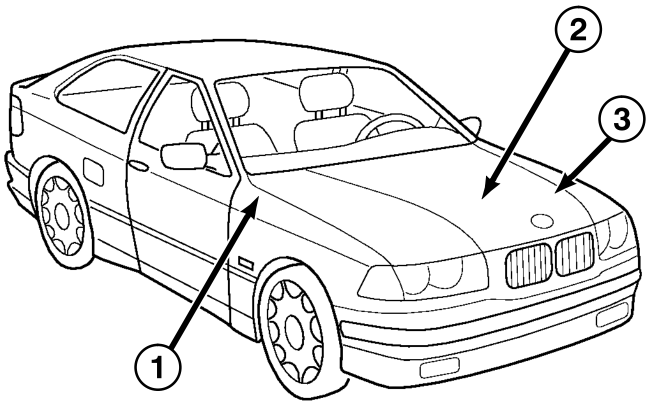
X6232

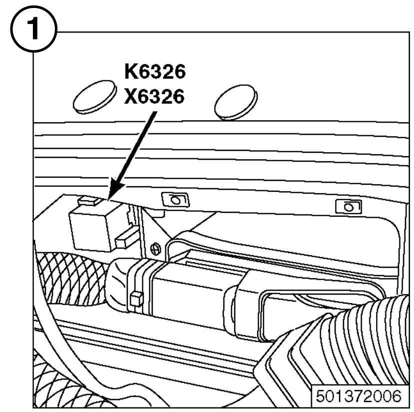


B62002
OXYGEN SENSOR
(BEHIND
CATALYTIC
CONVERTER)

X62002

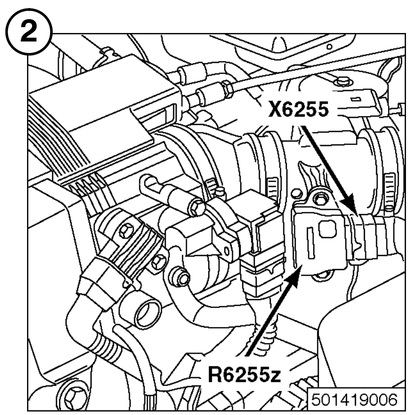
COMPONENT LOCATION VIEWS





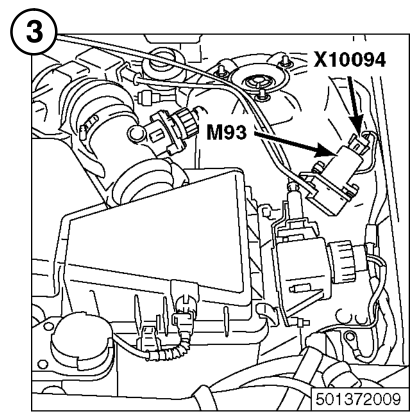
K6326
UNLOADER RELAY,
TERMINAL 15

X6326



R6255z
THROTTLE
POSITION SENSOR
(ASC)

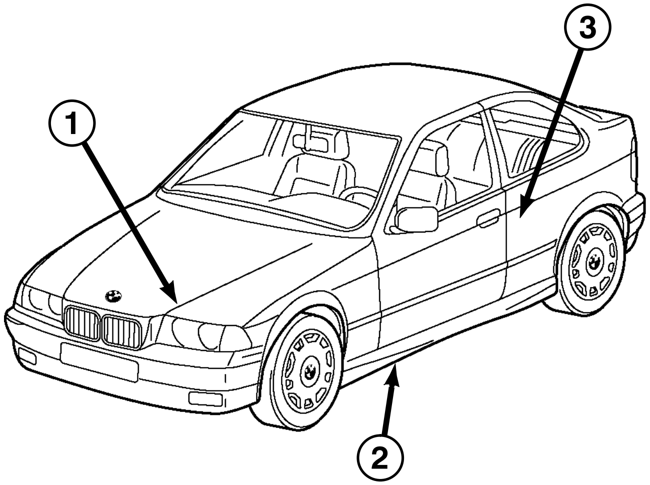
X6255

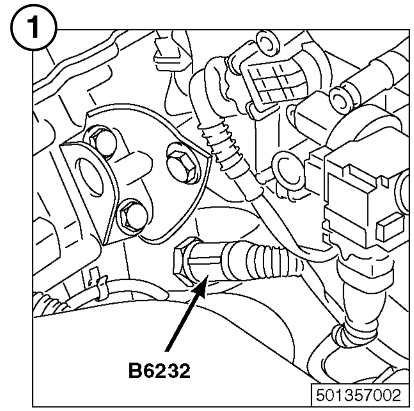


M93
AUXILIARY
THROTTLE
POSITION MOTOR
(ADS)

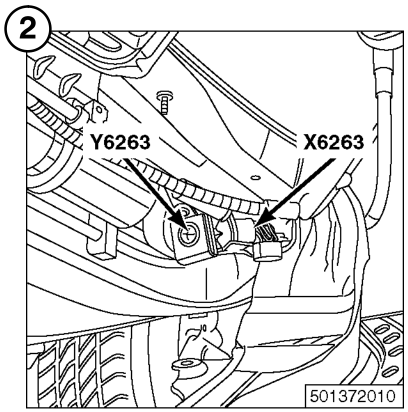
X10094

COMPONENT LOCATION VIEWS



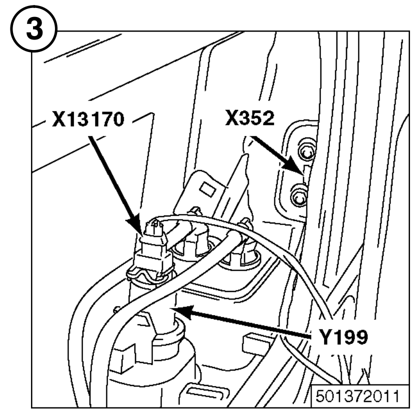


B6232
ENGINE COOLANT
TEMPERATURE
SENSOR



Y6263
FUEL CHANGE-
OVER VALVE

X6263

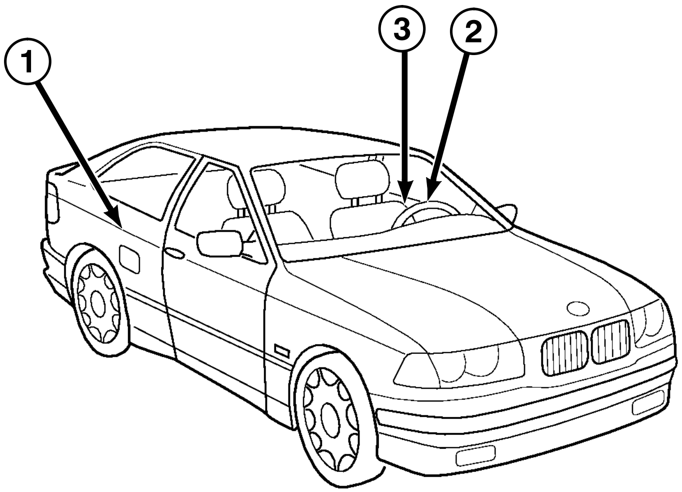


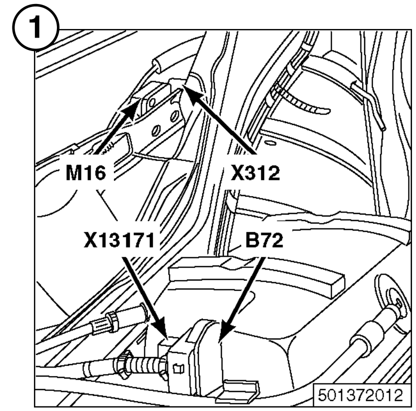
Y199
CARBON
CANISTER VALVE

X352
X13170

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COMPONENT LOCATION VIEWS



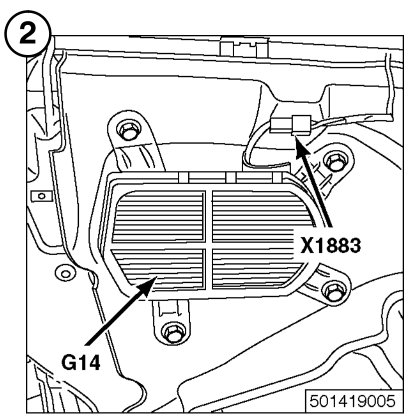


B72
FUEL TANK
PRESSURE
SENSOR

M16
GAS FILLER LOCK
MOTOR

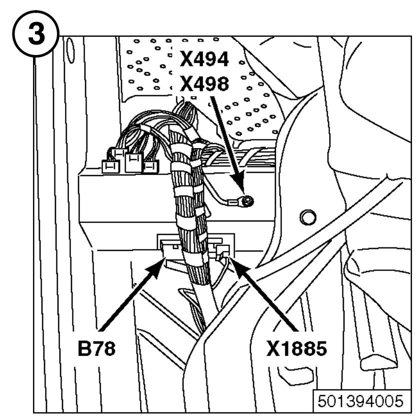
X312

X13171



G14
LEFT SIDE AIR BAG
GAS GENERATOR

X1883



B78
DRIVER'S SIDE IM-
PACT SENSOR

X494
GROUND

X498
GROUND

X1885

8000.0 SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0-01
X428–X481	REAR	8000.0-02
X530–X595	FRONT	8000.0-01
X805	REAR	8000.0-02
X818	IHKS	NOT SHOWN
X824–X830	RADIO	NOT SHOWN
X849	DRIVER'S DOOR	NOT SHOWN
X876–X877	RADIO	NOT SHOWN
X897	IHKS	NOT SHOWN
X906	HS/IHKS	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0-01
X1167	REAR	8000.0-02
X1168–X1192	FRONT	8000.0-01
X1212–X1214	REAR	8000.0-02
X1225	FRONT	8000.0-01
X1226	REAR	8000.0-02
X1233	FRONT	8000.0-01
X1234–1238	REAR	8000.0-02
X1258	FRONT	8000.0-01
X1263	REAR	8000.0-02
X1387–X1396	REAR	8000.0-02
X1541–X1542	FRONT	8000.0-01
X1682–X1693	FRONT	8000.0-01
X1896	REAR	8000.0-02
X6410–X6411	M44 ENGINE	8000.0-03
X6460–X6492	M44 ENGINE	8000.0-03
X6820–X6900	M44 ENGINE	8000.0-03

SPLICE	HARNESS	PAGE NUMBER
X7845–X7846	M44 ENGINE	8000.0-03
X8004–X8576	M44 ENGINE	8000.0-03
X10007–X10090	FRONT	8000.0-01
X10118	REAR	8000.0-02
X10120–X10123	FRONT	8000.0-01
X10169	M44 ENGINE	8000.0-03
X10191–X10231	FRONT	8000.0-01
X10233	IHKS	NOT SHOWN
X10252	FRONT	8000.0-01
X10269–X10310	REAR	8000.0-02
X11264	FRONT	8000.0-01
X11268	REAR	8000.0-02
X11282–X11284	FRONT	8000.0-01
X11291–X11380	REAR	8000.0-02
X11381	FRONT	8000.0-01
X13000	FRONT	8000.0-01
X13002–X13011	REAR	8000.0-02
X13021–X13115	FRONT	8000.0-01
X13118–X13173	REAR	8000.0-02
X13279	IHKS	NOT SHOWN
X13282	FRONT	8000.0-01
X13289	REAR	8000.0-02
X13300–X13304	FRONT	8000.0-01
X13309	REAR	8000.0-02
X13311–X13313	FRONT	8000.0-01
X16809–X17319	RADIO	NOT SHOWN
X18165	FRONT	8000.0-01
X18782	HS	NOT SHOWN

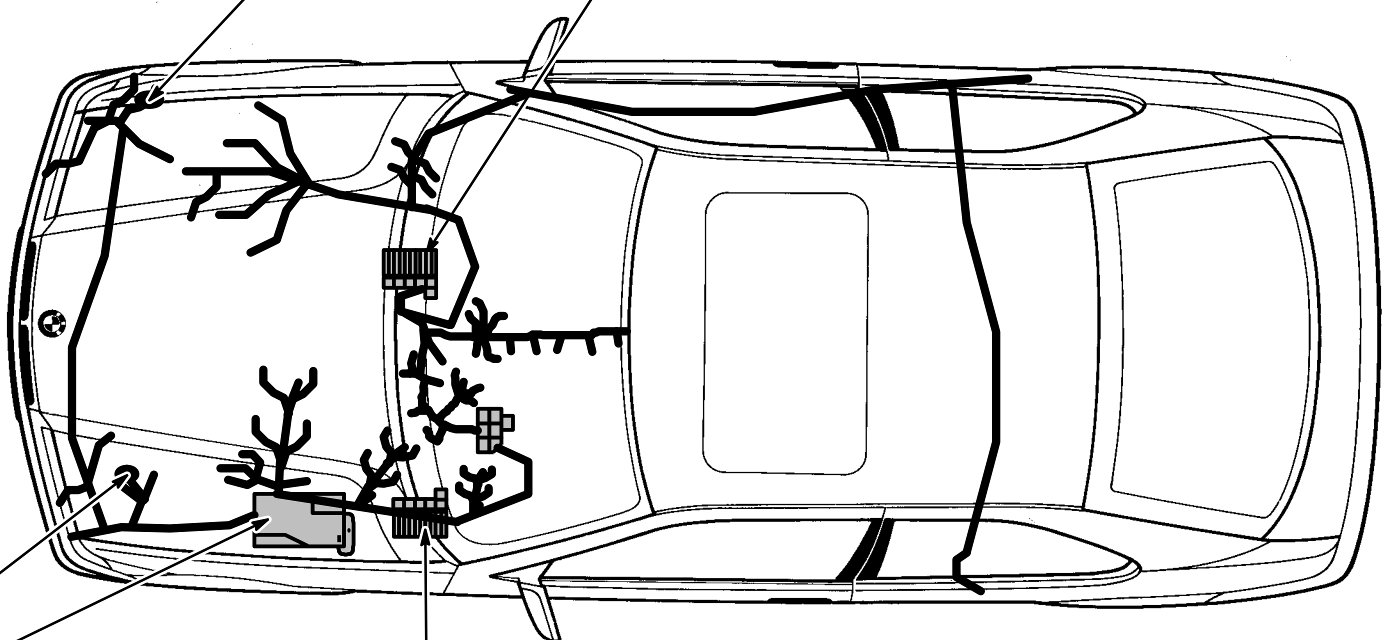
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SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X18783–X18784	FRONT	8000.0-01
X19513	RADIO	NOT SHOWN

SPLICE LOCATION VIEWS

FRONT HARNESS



SPLICE PANEL

X195	X10064
X218	X11282
X557	X11283
X1149	X13115
X10009	X13282

SPLICE PANEL

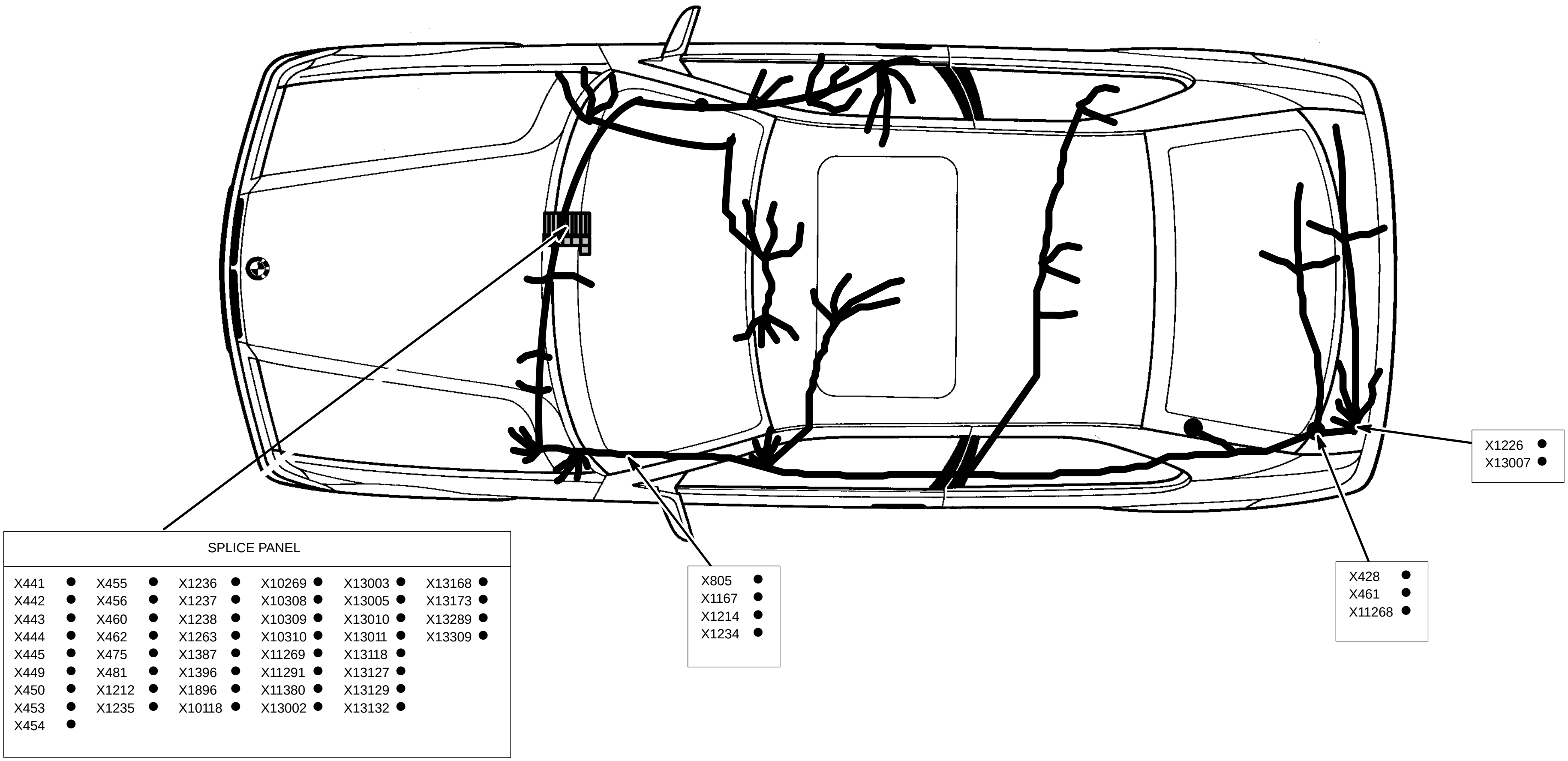
X184	X245	X1027	X1077	X1186	X10022	X13300
X185	X246	X1028	X1152	X1192	X10029	X13302
X186	X276	X1036	X1163	X1233	X10055	X18783
X187	X530	X1055	X1164	X1541	X10100	X18784
X203	X595	X1068	X1168	X10007	X10192	
X223	X1015	X1073	X1172	X10020	X11284	
X238	X1022	X1076	X1177	X10021	X13000	

SPLICE PANEL

X181	X228	X1079	X1542	X10011	X10120	X13021
X182	X1019	X1080	X1682	X10024	X10123	X13311
X183	X1029	X1085	X1686	X10028	X10191	X13312
X188	X1047	X1169	X1687	X10060	X10231	X13313
X191	X1065	X1179	X1689	X10061	X10252	X18165
X196	X1066	X1182	X1691	X10090	X11264	
X197	X1067	X1225	X1693	X10103	X11381	
X213	X1069	X1258	X10008	X10104		

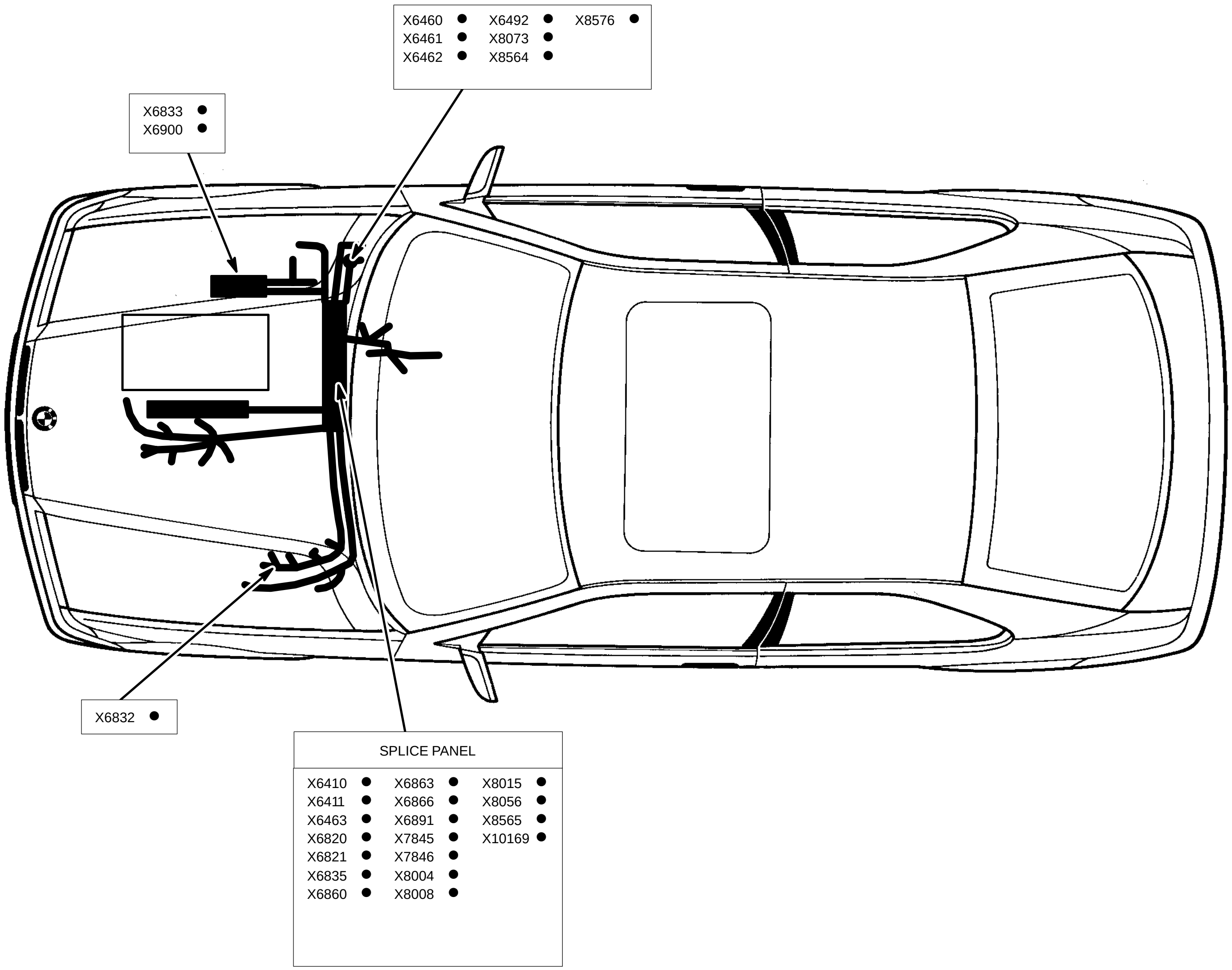
SPLICE LOCATION VIEWS

REAR HARNESS



SPLICE LOCATION VIEWS

ENGINE HARNESS



8500.0 CONNECTOR VIEWS

FIG. 1

B200003.02

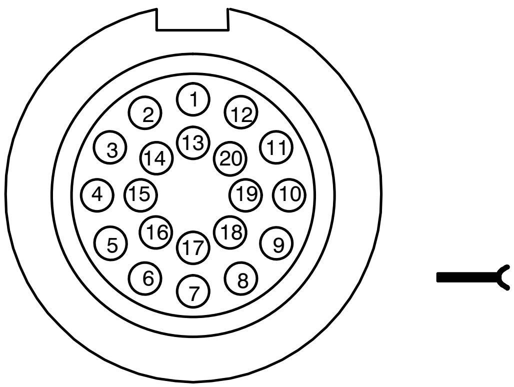


FIG. 2

B260005.01

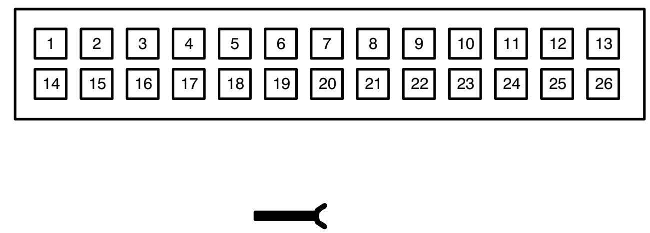


FIG. 3

B150003.00

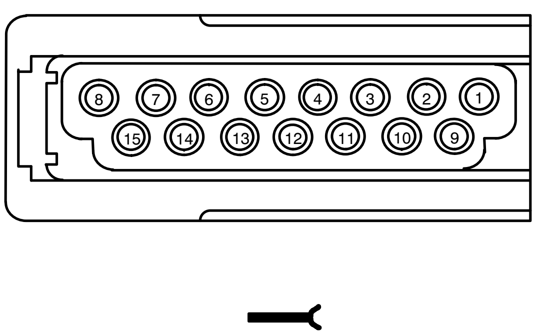
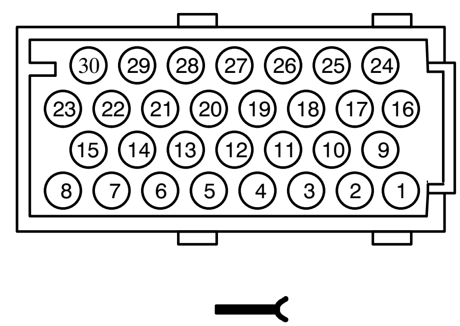


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

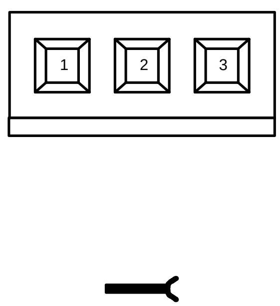


FIG. 2

B060042

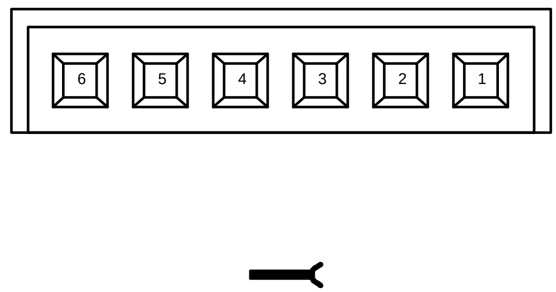


FIG. 3

B120001.00

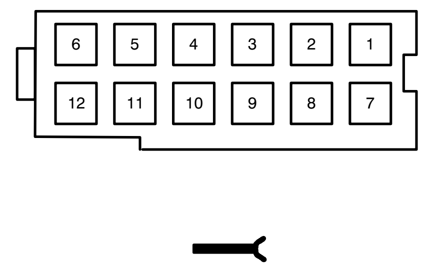


FIG. 4

B080002.00

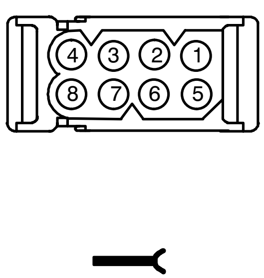


FIG. 5

B180000.00

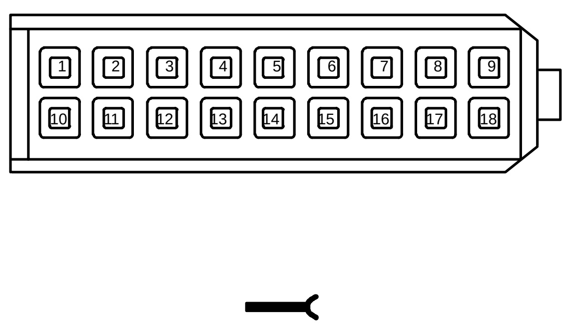
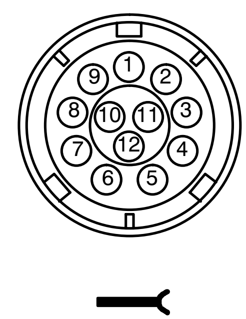


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B060046.00

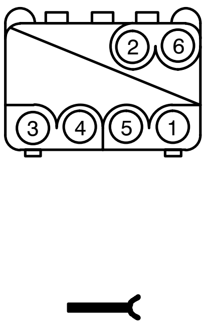


FIG. 2

B170001.00

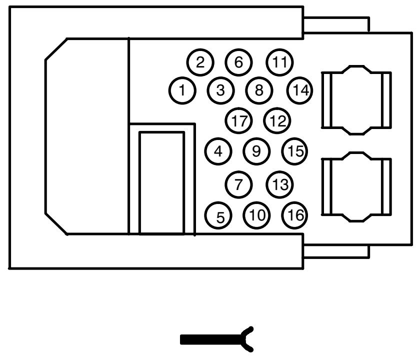


FIG. 3

B100008.00

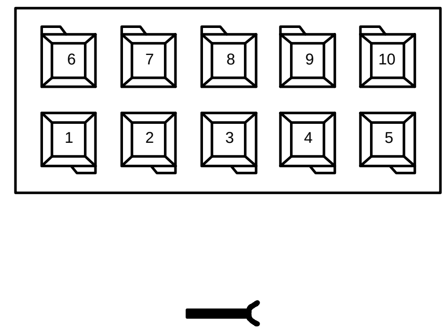


FIG. 4

B120004.01

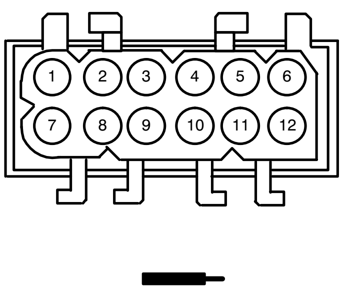


FIG. 5

B050005.00

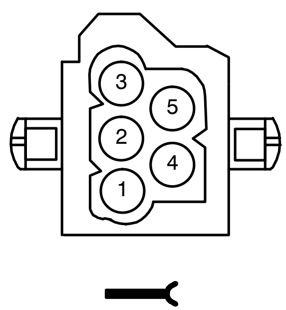
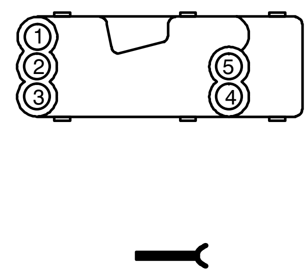


FIG. 6

B050003.00



CONNECTOR VIEWS

FIG. 1

B040004.00

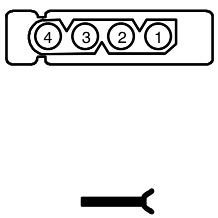


FIG. 2

B030018.02

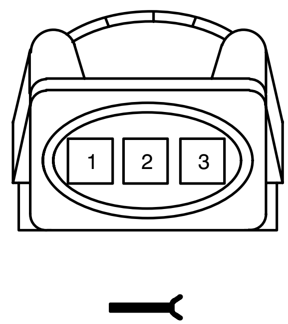


FIG. 3

B080001.00

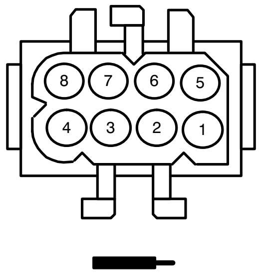


FIG. 4

B090002.00

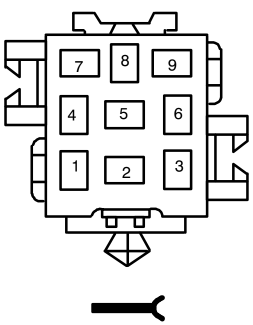


FIG. 5

B210002.00

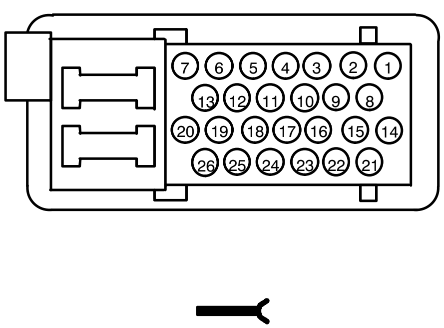
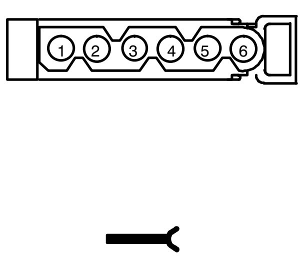


FIG. 6

B060001.02



CONNECTOR VIEWS

FIG. 1

B500000.00

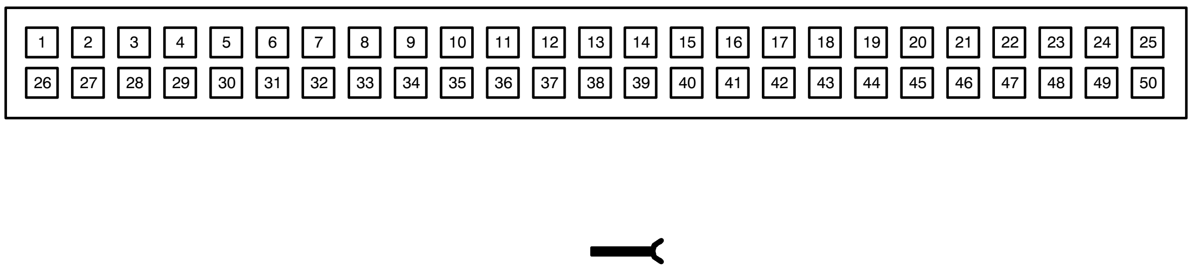


FIG. 2

B250001.01

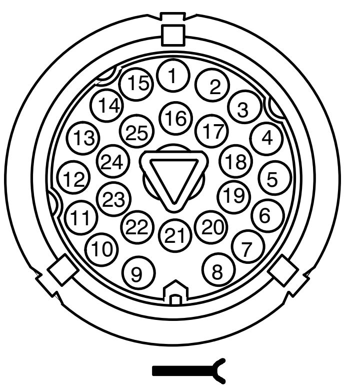


FIG. 3

B060019.02

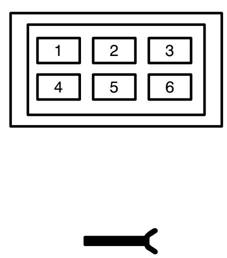
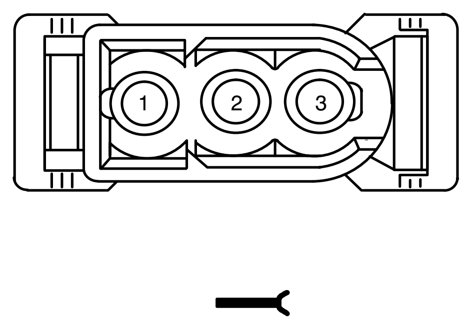


FIG. 4

B030029.00



CONNECTOR VIEWS

FIG. 1

B880001.00

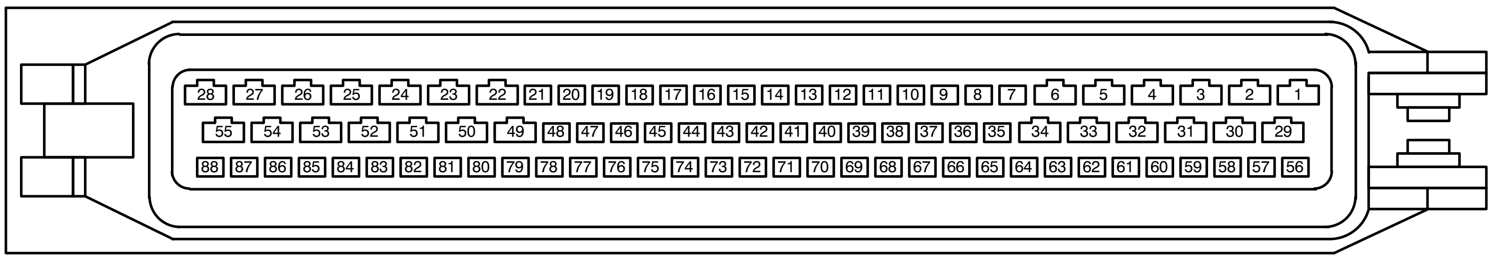


FIG. 2

B070013.00

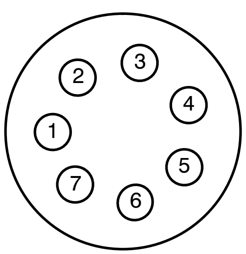


FIG. 3

B030006.00

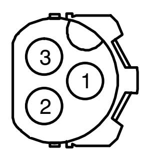
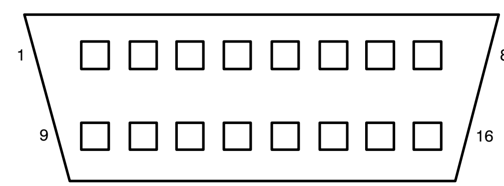


FIG. 4

B160002.00



CONNECTOR VIEWS

FIG. 1

B040023.03

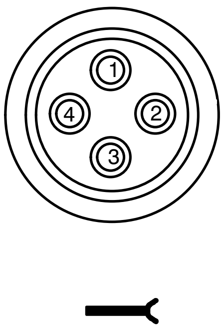


FIG. 2

B030003.02

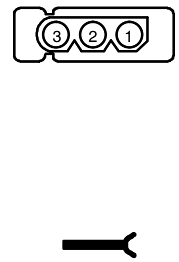


FIG. 3

B040029.01

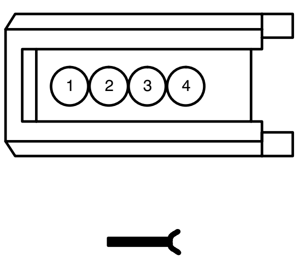


FIG. 4

B030025.00

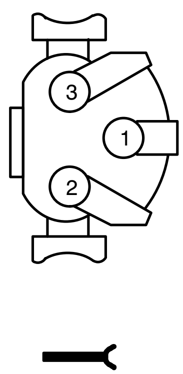
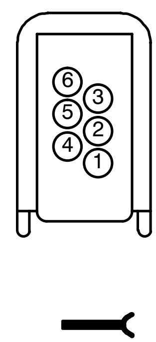


FIG. 5

B060041.00



CONNECTOR VIEWS

FIG. 1

B040026

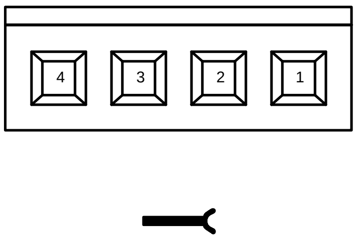


FIG. 2

B030036.01

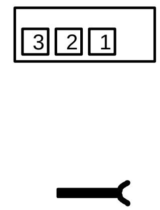
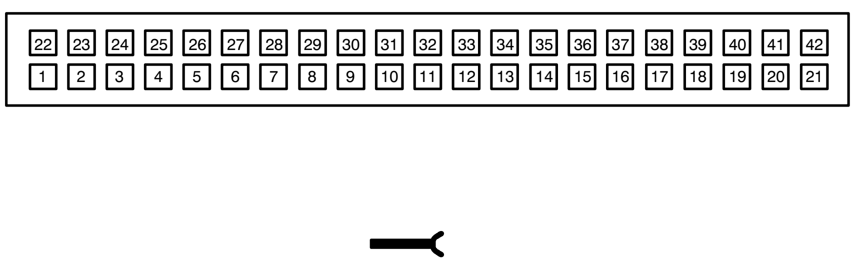


FIG. 3

B420000.00



compact

CONNECTOR VIEWS

FIG. 1

B040027.00

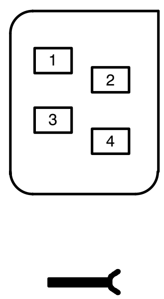


FIG. 2

B070012.00

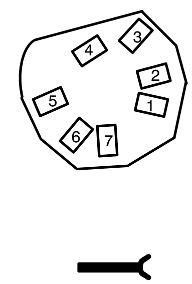


FIG. 3

B120002.02

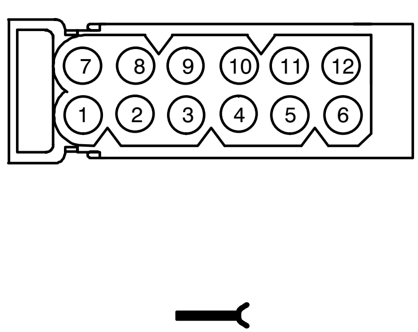


FIG. 4

B070005.00

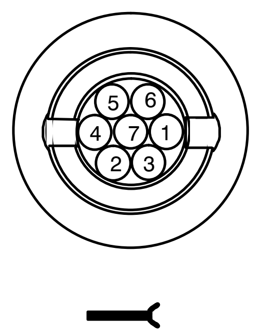
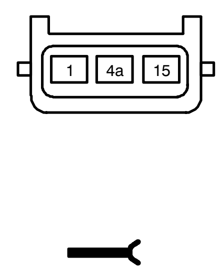


FIG. 5

B030015.08



CONNECTOR VIEWS

FIG. 1

B030042.00

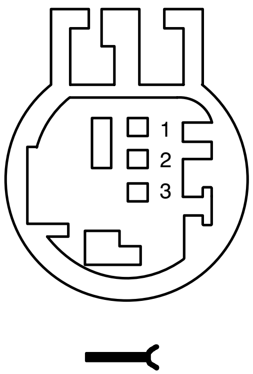


FIG. 2

B030022.00

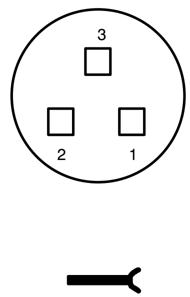


FIG. 3

B120006.00

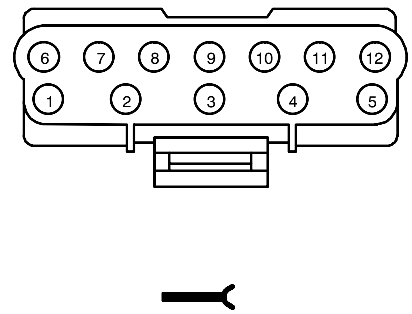


FIG. 4

B030004.01

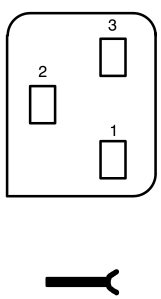


FIG. 5

B160001.00

